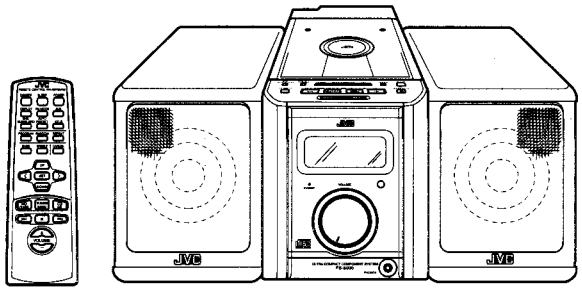
JVC

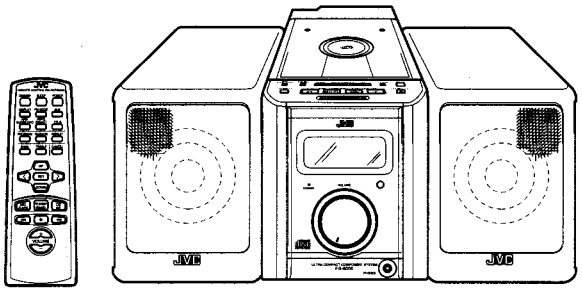
SERVICE MANUAL

MICRO COMPONENT SYSTEM

FS-5000/FS-6000



FS-5000



FS-6000

Area Suffix	
J ----------	The U.S.A & Canada

COMPACT disc DIGITAL AUDIO

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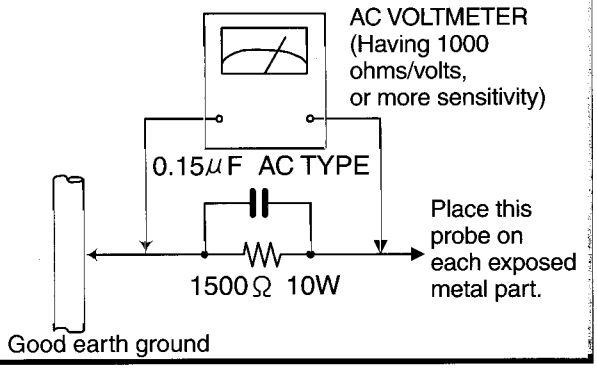
No.20713
Jul. 1998

Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage currnet check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - ●Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet , particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.)
   - ●Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now reverse the plug in the AC outlet and repeat each measurement voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).

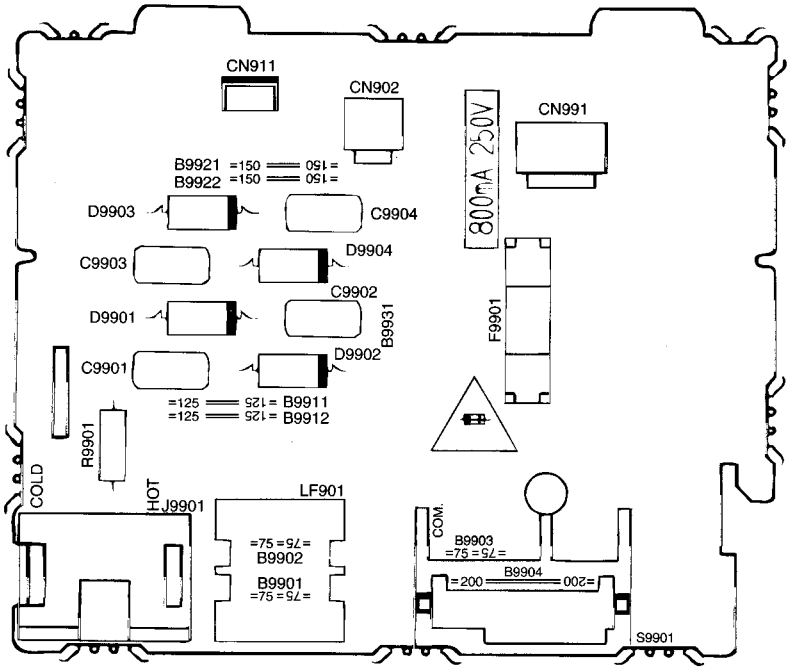


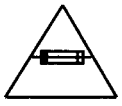
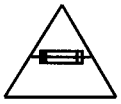
Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

⚠*CAUTION* **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

■Importance Admistering point on the Safety



J ONLY	J SEULEMENT
Full Fuse Replacement Marking	**Marquage Pour Le Remplacement Complet De Fusible**
Graphic symbol mark (This symbol means fast blow type fuse.)	Le symbole graphique (Ce symbole signifie fusible de type á fusion rapide.)
	
should be read as follows ;	doit être interprété comme suit ;
FUSE CAUTION	**PRECAUTIONS SUR LES FUSIBLES**
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSES ;	**POUR UNE PROTECTION CONTINUE CONTRE DES RISQUES D'INCENDIE, REMPLACER SEULEMENT PAR UN FUSIBLE DU MEME TYPE ;**
F9901 : 800mA, 250V	**F9901 : 800mA, 250V**

Important for Laser Products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The compact disc player uses invisible laserradiation and is equipped with safety switches whichprevent emission of radiation when the drawer is open and the safety interlocks have failed or are de feated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen.

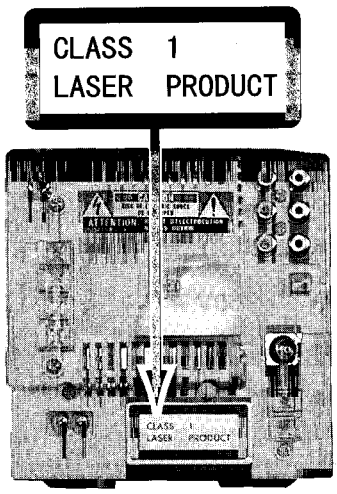
ADVARSEL : Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

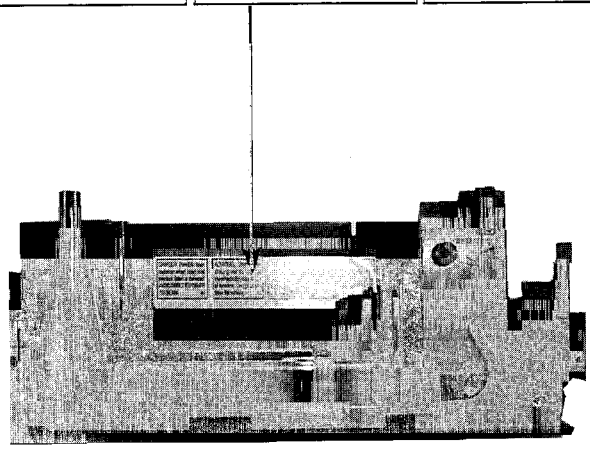
ADVARSEL : Usynlig laserstråling ved åpning,når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL

DANGER : Invisibie laser radiation when open and interlock or defeated. AVOID DIRECT EXPOSURE TO BEAM (e)	VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen. (d)	VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen. (s)	ADVARSEL :Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (f)





JVC

VICTOR COMPANY OF JAPAN, LIMITED

EN, SP, FR

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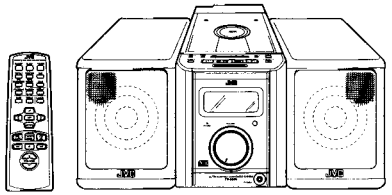
1-5

JVC

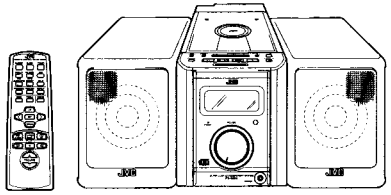
Instructions (For UX-5500R)

ULTRA COMPACT COMPONENT SYSTEM
SISTEMAS DE COMPONENTES ULTRA COMPACTOS
SYSTEME DE COMPOSANTS ULTRA COMPACT

FS-5000
FS-6000



FS-5000



FS-6000

COMPACT disc DIGITAL AUDIO

INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MANUEL D'INSTRUCTIONS

For Customer Use:
Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. _____

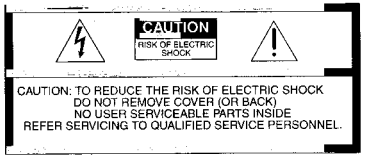
Serial No. _____

LVT0086-001A
[J]

FS-5000/FS6000

Warnings, Cautions and Others / Mises en garde, précautions et indications diverses

(For U.S.A)

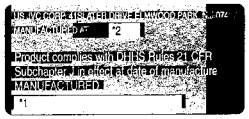

CAUTION
RISK OF ELECTRIC SHOCK
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IDENTIFICATION AND CERTIFICATION LABEL



• **PLACED ON EXTERIOR SURFACE**

Notes:
*1 The date of manufacture.
*2 The ID code of manufacturing plant.

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For Canada/pour le Canada

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
PRECAUTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQUAU FOND.

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualitied service personnel.

CAUTION

To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

Caution — POWER switch!
Disconnect the mains plug to shut the power off completely. The POWER switch in any position does not disconnect the mains line. The power can be remote controlled.

1. PRODUIT LASER CLASSE 1
2. **ATTENTION:** Radiation laser invisible quand l'appareil est ouvert ou que le verrouillage est en panne ou désactivé. Eviter une exposition directe au rayon.
3. **ATTENTION:** Ne pas ouvrir le couvercle du dessus. Iln'y a aucune pièce utilisable à l'intérier. Laisser à un personnel qualifié le soin de réparer votre appareil.

ATTENTION

Afin d'èviter tout risque d'électrocution, d'Incendie. etc.:
1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

Attention — Commutateur POWER!
Déconnecter la fiche de secteur poru couper complètement le courant. Le commutateur POWER ne coupe jamais complètement la ligne de secteur, quelle que soit sa position. Le courant peut être télécommandé.

English

Thank you for purchasing the JVC Ultra Compact Component System.
We hope it will be a valued addition to your home, giving you years of enjoyment.
Be sure to read this instruction manual carefully before operating your new stereo system.
In it you will find all the information you need to set up and use the system.
If you have a query that is not answered by the manual, please contact your dealer.

Features

Here are some of the things that make your System both powerful and simple to use.

- The controls and operations have been redesigned to make them very easy to use, freeing you to just enjoy the music.
  - With JVC's **COMPU PLAY** you can turn on the System and automatically start the Radio or CD Player with a single touch.

COMPU PLAY

- The System incorporates Active Hyper Bass Super PRO circuitry to faithfully reproduce low frequency sounds.
- A 45-station preset capability (30 FM and 15 AM) in addition to auto-seek and manual tuning.
- Versatile CD options include repeat, random and program play.
- Timer functions; set the system to automatically come on, switch off.
- You can connect various external units, such as an MD recorder, tape deck, etc.

How This Manual Is Organized

- Basic information that is the same for many different functions - e.g. setting the volume - is given in the section 'Common Operations', and not repeated under each function.
- The names of buttons/controls and display messages are written in all capital letters: e.g. TUNER BAND, "NO DISC".
- System functions are written with an initial capital letter only: e.g. Normal Play.

Use the table of contents to look up specific information you require.
We've enjoyed making this manual for you, and hope it serves you in enjoying the many features built into your System.

IMPORTANT CAUTIONS

1. Installation of the System

- Select a place which is level, dry and neither too hot nor too cold. (Between 5°C and 35°C or 41°F and 95°F.)
- Leave sufficient distance between the System and a TV.
- Do not use the System in a place subject to vibrations.

2. Power cord

- Do not handle the power cord with wet hands!
- Some power (5W) is always consumed as long as the power cord is connected to the wall outlet.
- When unplugging the System from the wall outlet, always pull the plug, not the power cord.

3. Malfunctions, etc.

- There are no user serviceable parts inside. In case of system failure, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the System.

Table of Contents

Features 1
How This Manual Is Organized 1
IMPORTANT CAUTIONS 1

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Common Operations 6
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Using the CD Player 10
Listening to External Equipments 12
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Troubleshooting 16
Specifications 16

Getting Started

English

Accessories

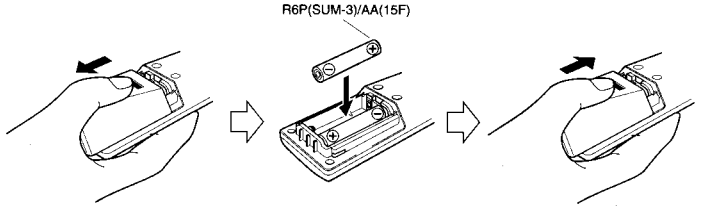
Check that you have all of the following items, which are supplied with the System.

Power Cord (1)
AM Loop Antenna (1)
Remote Control (1)
Batteries (2)
FM Wire Antenna (1)
Speaker Cords (2)

If any of these items are missing, contact your dealer immediately.

How To Put Batteries In the Remote Control

Match the polarity (+ and –) on the batteries with the + and – markings in the battery compartment.

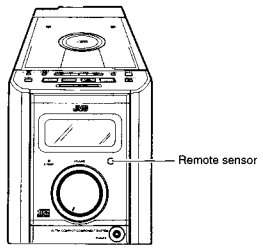


CAUTION: Handle batteries properly.
To avoid battery leakage or explosion:

- Remove batteries when the Remote Control will not be used for a long time.
- When you need to replace the batteries, replace both batteries at the same time with new ones.
- Don't use an old battery with a new one.
- Don't use different types of batteries together.

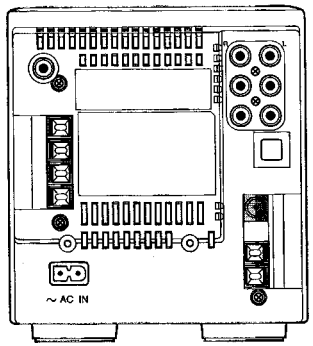
Using the Remote Control

The Remote Control makes it easy to use many of the functions of the System from a distance of up to 7m (23 feet) away.
You need to point the Remote Control at the remote sensor on the System's front panel.

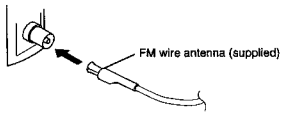


CAUTION: Make all connections before plugging the System into an AC power outlet.

Connecting the FM Antenna

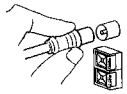


Using the Supplied Wire Antenna

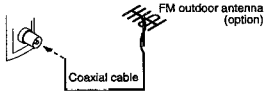


Using the Coaxial Type Connector (Not Supplied)

A 75-ohm antenna with coaxial type connector should be connected to the FM 75-ohm COAXIAL terminal.



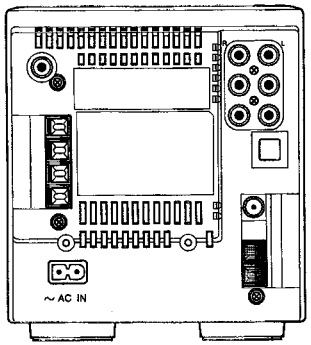
If reception is poor, connect the outside antenna.

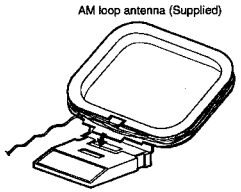


Note: Before attaching a 75 ohm coaxial lead (the kind with a round wire going to an outside antenna), disconnect the supplied FM Wire Antenna.

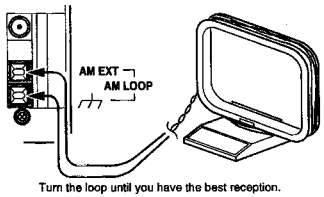
CAUTION: To avoid noise, keep antennas away from the System, the connecting cord and the AC power cord.

Connecting the AM Antenna





Attach the AM loop to its base by snapping the tabs on the loop into the slot in the base.

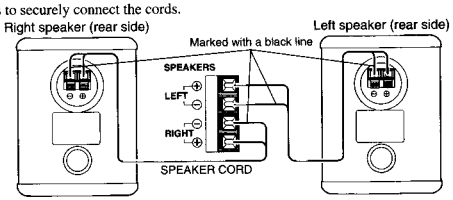


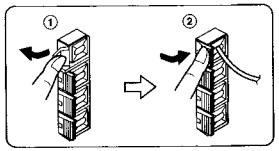
Turn the loop until you have the best reception.

CAUTION: Make all connections before plugging the System into an AC power outlet.

Connecting the Speakers

1. Open the Speaker terminals on the rear of the Unit, and on the Speakers themselves.
2. Connect the speaker cords between the terminals as shown below.
   Connect the cords with a black line to the (–) terminals and cords without a black line to the (+) terminals.
   Close each of the terminals to securely connect the cords.





CAUTION: A TV may display irregular colors if located near the speakers. If this happens, set the speakers away from the TV.

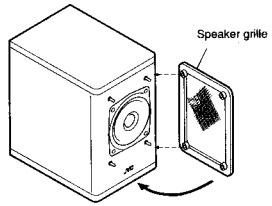
Removing the speaker grilles

The speaker grilles can be removed.

When removing,

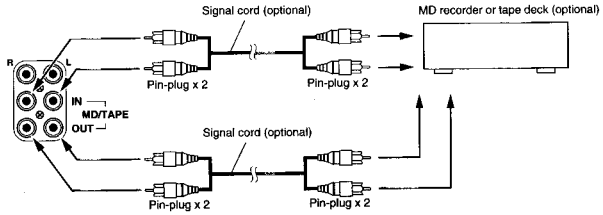
1. Insert your fingers at the top and pull towards you.
2. Also pull the bottom towards you.

When Attaching the speaker grille



Connecting an MD Recorder/Tape Deck

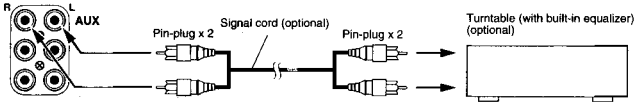
Connect (optional) signal cords between the System's MD/TAPE IN/OUT terminals and the output/input terminals of the external MD recorder, tape deck, etc.
You can then listen to the external source through the System, or record the System's CD player or tuner to the external unit.



CAUTION: Make all connections before plugging the System into an AC power outlet.

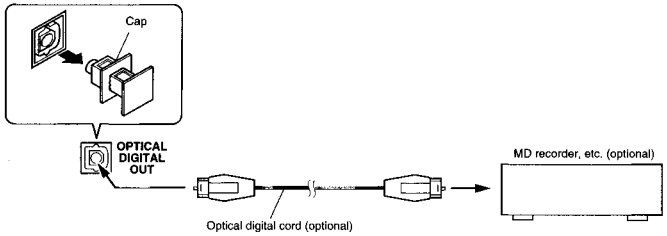
Connecting Auxiliary Equipment

Connect an (optional) signal cord between the AUX terminals on the System and the output terminals of your auxiliary equipment, (e.g. turntable). You can listen to this source.



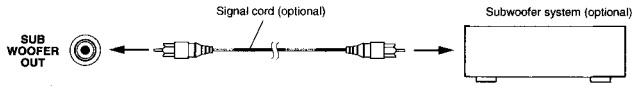
Connecting an MD Recorder, etc (Digital Output)

Unplug the cap and connect an (optional) optical digital cord between the System's OPTICAL DIGITAL OUT terminal and the input terminal of the MD recorder, etc.
You can record the digital output signal from the System's CD Player to the MD recorder, etc.



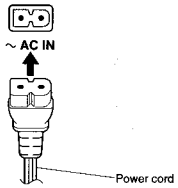
Connecting a Subwoofer System

Connect an (optional) signal cord between the SUB WOOFER OUT terminal and an external JVC subwoofer system, etc.



Connecting the AC Power Cord

Firmly insert the supplied AC power cord into the AC inlet on the back of the Unit.



The provided AC power cord for this unit has certain one-way direction connections to prevent electric shock. Refer to the illustration for correct connection.

CAUTIONS:

- **ONLY USE THE JVC POWER CORD PROVIDED WITH THIS SYSTEM TO AVOID MALFUNCTION OR DAMAGE TO THE SYSTEM.**
- **BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE SYSTEM IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.**

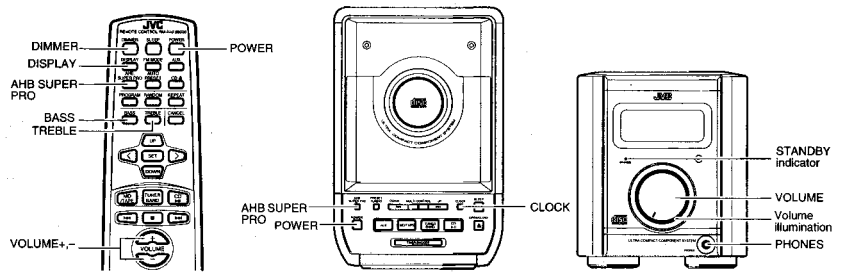
Now you can plug the AC power cord into the wall outlet, and your System is at your command!

COMPU PLAY

JVC's COMPU PLAY feature lets you control the most frequently used System functions with a single touch.
With One Touch Operation you can play a CD, turn on the radio, or listen to an external equipment with a single press of the play button for that function. One Touch Operation turns the power on for you, then starts the function you have specified. If the System is not ready (no CD in place), the System still powers on so you can insert a CD.
How One Touch Operation works in each case is explained in the section dealing with that function.
The COMPU PLAY buttons are:

On the Unit	On the Remote Control
CD ►II button	CD ►II button
TUNER BAND button	TUNER BAND button
MD/TAPE button	MD/TAPE button
AUX button	AUX button

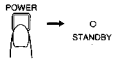
Common Operations



Turning the Power On and Off

Turning the System On

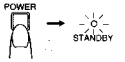
Press the POWER button.
The display comes on and the STANDBY indicator goes out.
The System comes on ready to continue in the mode it was in when the power was last turned off.



- For example, if the last thing you were doing was listening to a CD, you are now ready to listen to a CD again. If you wish, you can change to another source.
- If you were listening to the Tuner last, the Tuner comes on playing the station it was last set to.

Turning the System Off

Press the POWER button again.
The STANDBY indicator lights up and the display is blank, except for the clock display.



- Some power (5W) is always consumed even though power is turned off (called Standby Mode).
- To switch off the System completely, unplug the AC power cord from the AC outlet. When you unplug the AC power cord, the clock will be reset to AM 12:00 after about 20 minutes, and preset Tuner stations will be erased after about 24 hours.

Adjusting the Brightness (DIMMER)

You can adjust the brightness of the display.
To make the display brighter, press the DIMMER button on the Remote Control.
To make the display darker, press the DIMMER button on the Remote Control again.

- The brightness of the volume illumination is also adjusted.
- In Standby mode, the normal brightness is the same as the darker brightness for the powered System. When you press the DIMMER button in Standby mode, the brightness becomes further darker.
  In standby mode, the volume illumination does not light.

Adjusting the Volume

Turn the VOLUME control of the Unit clockwise to increase the volume or counterclockwise to decrease it.

OR

With the System turned on, press the VOLUME + button on the Remote Control to increase the volume or press the VOLUME – button to decrease it.

CAUTION: DO NOT turn on the System and/or start playing any source without first setting the VOLUME control to minimum, as a sudden blast of sound could damage your hearing, speakers and/or headphones.

For private listening

Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers.

Be sure to turn down the volume before connecting or putting on headphones.

Reinforcing the Bass Sound (AHB SUPER PRO)

You can reinforce the bass sound to maintain rich, full bass at low volume (you can use this effect only for playback):

To get the effect, press the AHB (Active Hyper Bass) SUPER PRO button on the Unit or the Remote Control.

The "BASS" indicator lights up on the display.

To cancel the effect, press the button again.

The "BASS" indicator goes out.

Tone Control (BASS/TREBLE)

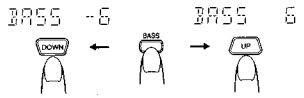
You can control the tone by changing the bass and treble.

BASS Control

You can adjust the bass level (low frequency range level) between –6 and 6. (0: Flat)

1 Press the BASS button on the Remote Control.

2 Press the UP or DOWN button on the Remote Control to adjust the bass level.

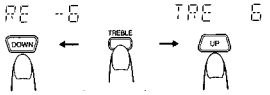


TREBLE Control

You can adjust the treble level (high frequency range level) between –6 and 6. (0: Flat)

1 Press the TREBLE button on the Remote Control.

2 Press the UP or DOWN button on the Remote Control to adjust the treble level.



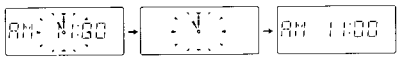
Showing the Time (DISPLAY)

In addition to a standard digital clock, an analogue clock (which advances every five minutes) can be displayed. The clock display order varies according to the System mode:

In Standby mode

Every time you press the DISPLAY button on the Remote Control (or the CLOCK button on the Unit), the clock display changes as shown below.

Digital Clock + Analogue Clock → Analogue Clock → Digital Clock → (back to the beginning)



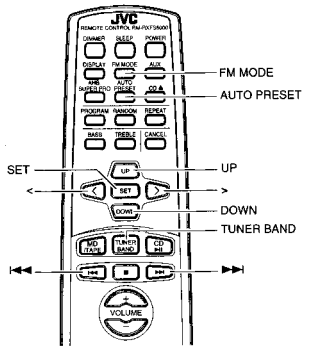
When the System is turned on

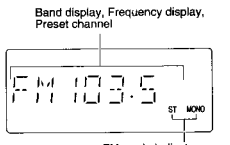
Every time you press the DISPLAY button on the Remote Control (or the CLOCK button on the Unit), the time display changes as follows:

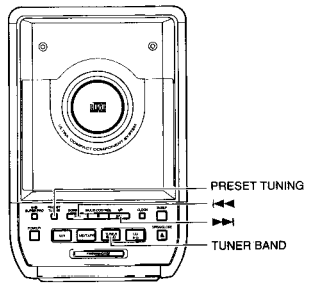
Current Source + Analogue Clock → Analogue Clock → Digital Clock → Current Source → (back to the beginning)

Note: The clock must be set to the correct time first. (See "Setting the Clock" on page 13.)

Using the Tuner







When the System is in use, the display shows other items as well. For simplicity, we show here only the items described in this section.

You can listen to FM and AM stations. Stations can be tuned in manually, automatically, or from preset memory storage.

■ Before listening to the radio:
- Check that both the FM and AM antennas are correctly connected. (See page 3).

One Touch Radio

Just press the TUNER BAND button to turn on the System and start playing the station you were last tuned to.

■ You can switch from any other sound source to the radio by pressing the TUNER BAND button.

Tuning In a Station

1 Press the TUNER BAND button.

The Band and Frequency you were last tuned to appear on the display.

(If the last station was selected using the preset number, the preset number appears first.)

Each time you press the button, the band alternates between FM and AM.

2 Select a station using one of the following methods.

■ **Manual Tuning**

Press the ⏮ or ⏭ button on the Unit or the Remote Control repeatedly to move from frequency to frequency until you find the station you want.

OR

■ **Auto Tuning**

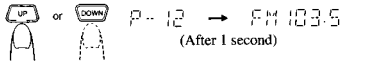
If you press and hold the ⏮ or ⏭ button on the Unit or the Remote Control for one second or more, the frequency changes down, or up, automatically until a station is found.

OR

■ **Preset Tuning using the Remote Control (Possible only after presetting stations)**

Press the UP or DOWN button on the Remote Control to select the desired preset number. After 1 second the display will show the preset number's band and frequency.

Example:Press the UP button until the preset number 12 "P--12" appears.



■ **Preset Tuning using the Unit (Possible only after presetting stations)**

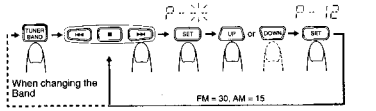
Press the PRESET TUNING button to select the desired preset number. Its band and frequency are displayed.

Presetting Stations

You can preset up to 30 FM stations and up to 15 AM stations using the Remote Control.

Note: Preset numbers may have been set to factory test frequencies prior to shipment. This is not a malfunction. You can preset the stations you want into memory by following one of the presetting methods below.

Manual Presetting



1 Select a band by pressing the TUNER BAND button.

2 Press the ⏮ or ⏭ button to tune in a station.

3 Press the SET button.

"P------" is displayed. The lower 2 digits blink.

4. Press the UP, DOWN, >, or < button to select the preset number.

UP button: Increases the preset number by 1.
DOWN button: Decreases the preset number by 1.
> button: Increases the preset number by ten.
< button: Decreases the preset number by ten.

5. Press the SET button.

After 1 second, the display returns to the broadcast frequency display.

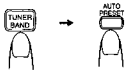
6. Repeat above steps 1 to 5 for each station you want to store in memory with a preset number.

To cancel during presetting, press the CANCEL button in step 3 or 4.

To change the preset stations, repeat the same steps as above.

Auto Presetting

In each band, you can automatically preset FM-30, AM-15 stations. Preset numbers will be allocated as stations are found, starting from the lowest frequency and moving up the frequency.



1. Select a band by pressing the TUNER BAND button.

2. Press the AUTO PRESET button on the Remote Control for more than two seconds.

3. Repeat steps 1-2 for the other band.

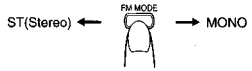
■ If you want to change the preset stations, carry out the Manual Presetting for the desired preset numbers.

CAUTION: If the System is unplugged or if a power failure occurs, the preset stations will be erased after about 24 hours. If this happens, you will need to preset the stations again.

To Change the FM Reception Mode

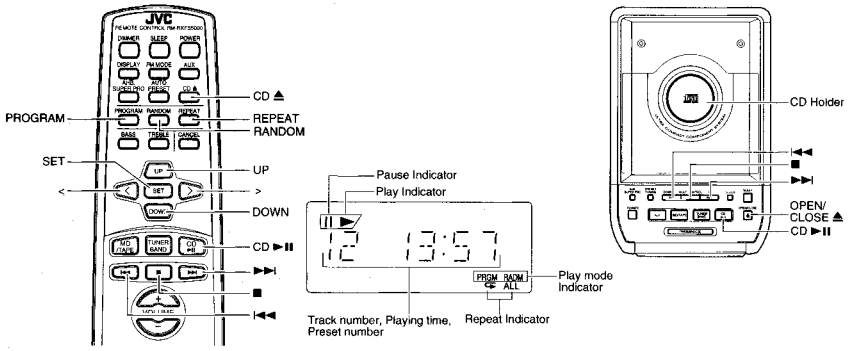
When you are tuned into an FM stereo broadcast, the "ST (Stereo)" indicator lights up and you can hear stereo effects.
If an FM stereo broadcast is hard to receive or noisy, you can select Monaural mode. Reception improves, but you lose any stereo effect.

Press the FM MODE button on the Remote Control so that the "MONO" indicator lights up on the display.



To restore the stereo effect, press the FM MODE button on the Remote Control so that the "MONO" indicator goes off.

Using the CD Player



When the System is in use, the display shows other items as well.
For simplicity, we show here only the items described in this section.

You can use Normal, Random, Program or Repeat Play. Repeat Play can repeat all the tracks or just one of the tracks on the CD.

Here are the basic things you need to know to play a CD and locate the different tracks on it.

The Quickest Way To Start a CD Is With the One Touch Operation

■ Press the CD ►II button.

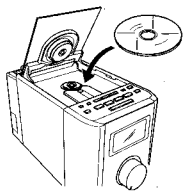
- The power is automatically turned on. If a CD is already inserted, it will start playing from the first track.
- If no CD is inserted, "NO DISC" appears on the display and the CD Player remains in Stop mode.

To Insert a CD

1. Press the OPEN/CLOSE ▲ button (or the CD ▲ button on the Remote Control).

The CD holder opens.

2. Place a CD, with its label side up as shown below.



3. Press the ▲ button again to close the CD holder.

■ You can place an 8 cm (3") CD without an adaptor.
■ If the CD cannot be read correctly (because it is scratched, for example), "00 0000" appears on the display.

CAUTION:DO NOT try to close the CD holder by hand as it will be damaged.

Basics of Using the CD Player - Normal Play

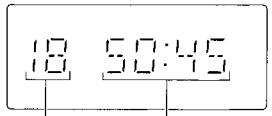
To Play a CD

1. Insert a CD.

2. Press the CD ►II button.

The Play (►) indicator lights up on the display and the first track of the CD begins playing.
The CD Player automatically stops when the last track of the CD has finished playing.

To stop playing the CD, press the ■ button on the Unit or the Remote Control.
The following information for the CD is displayed.



To stop playing and remove the CD, press the ▲ button to open the CD holder.
To pause, press the CD ►II button. The Pause (II) indicator will light up on the display.
To cancel pause, press the same button again. Play continues from the point where it was paused.

To Select a Track or Passage within a Track

During playback, press the |◄◄ or ►►| button on the Unit or the Remote Control to select the track you want.
The selected track starts playing.

- Press the ▶▶| button once to skip to the beginning of the next track.
- Press the |◀◀ button to skip to the beginning of the track being played. Press twice quickly to skip to the beginning of the previous track.

Search Play

Holding down the |◀◀ or ▶▶| button on the Unit or the Remote Control, during playback, will fast forward/backwards the CD so you can quickly find a particular passage in the track you are listening to.

Programming the Playing Order of the Tracks

You can program the playing order of the tracks using the Remote Control.

- You can program up to 20 tracks in any desired order.
- You can only make a program when the CD Player is stopped.

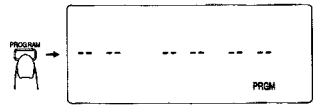
1 Insert a CD.

2 Press the CD ▶II button.

3 Press the ■ button to stop the CD.

4 Press the PROGRAM button.

The System enters the programming mode and the "PRGM" indicator lights up.

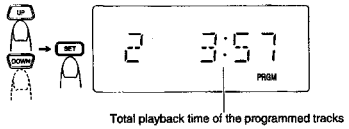


5 Press the UP, DOWN, >, or < button to select the track to program.

UP button: Increases the track number by 1.
DOWN button: Decreases the track number by 1.
> button: Increases the the track number by ten.
< button: Decreases the track number by ten.

- Example: for track 2, press the UP button twice. For track 12, press the > button, then press the UP button twice (or simply press the UP button 12 times).

6 Press the SET button.



Total playback time of the programmed tracks

7 Repeat steps 5 and 6 to select the other tracks for the program.

You can see the total playback time of programmed tracks on the display.

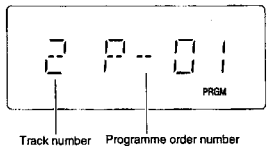
8 Press the CD ▶II button.

The System plays the tracks in the order you have programmed them.

- You can skip to a particular program track by pressing the |◀◀ or ▶▶| button during Program Play.

To cancel the programming before playing, press the CANCEL button in above step 4, 5 or 6.

To confirm the programmed tracks, press the PROGRAM button; the tracks making up the program will successively be displayed in the programmed order.



Track number Programme order number

To stop playing, press the ■ button once.

To delete all the tracks in a program, press the ■ button (or the CANCEL button on the Remote Control) while the CD Player is stopped. The "PRGM" indicator goes out and the program is deleted. Normal Play is resumed.

The program will also be deleted when you press the ▲ button to open the CD holder.

Note: If the total playback time of the programmed tracks exceeds 99 minutes 59 seconds, the total playback time will go out on the display.

Random Play

The tracks will play in no special order when you use this mode.

Press the RANDOM button on the Remote Control.

Playback automatically starts and the "RADM" indicator lights up on the display.

To skip a track during playback, press the ▶▶| button to jump to the next track in the random sequence. Press the |◀◀ button to jump back to the start of a track being played.

To cancel random play, press the RANDOM button again. The "RADM" indicator goes out and Normal Play is resumed.

Repeating Tracks

You can set the program or individual track playing to repeat as many times as you like.

Press the REPEAT button on the Remote Control.

The Repeat indicator changes with each press of the button, as shown below.

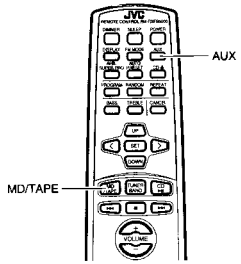
⊂ → ⊂ **ALL** → blank display → (back to the beginning)

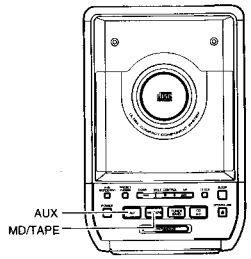
⊂ : Repeats one track.
In Random Play mode, this indicator is skipped

⊂ **ALL** : In Normal Play mode, repeats all the tracks.
In Program Play mode, repeats all the tracks in the program.
In Random Play mode, repeats all the tracks in random order.

To exit Repeat mode, press the REPEAT button until the Repeat indicator on the display goes out

Listening to External Equipments





Listening to an External MD Recorder/Tape Deck

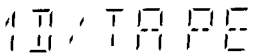
You can play an external MD recorder, tape deck, etc. through the system.

- First make sure that the external equipment is properly connected to the System. (See page 4).

1 Set the VOLUME control to minimum.

2 Press the MD/TAPE button.

When the System is in Standby mode, the System is automatically turned on.
"MD/TAPE" appears on the display.



3 Start playing the external equipment.

4 Adjust the VOLUME control to the desired listening level.

5 Apply sound effects, if you wish.

- Press the AHB Super PRO button to reinforce the bass sound.
- Press the BASS/TREBLE button to control the tone. (See "Tone Control" on page 7.)

To exit MD/TAPE mode

You will automatically switch out of MD/TAPE mode when you select another source.

Note: You can also record the System's output signal to the external equipment. For operation, refer to the equipment's own instructions.

Listening to Auxiliary Equipment

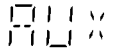
You can listen to a turntable or other auxiliary equipment.

- First make sure that the external equipment is properly connected to the System. (See page 5).

1 Set the VOLUME to minimum position.

2 Press the AUX button.

When the System is in Standby mode, the System is automatically turned on.
"AUX" appears on the display.



3 Start playing the auxiliary equipment.

4 Adjust the VOLUME control to the desired listening level.

5 Apply sound effects, if you wish.

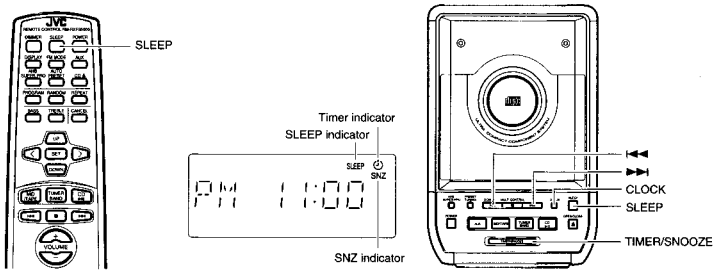
- Press the AHB Super PRO button to reinforce the bass sound.
- Press the BASS/TREBLE button to control the tone. (See "Tone Control" on page 7.)

To exit AUX mode

You will automatically switch out of AUX mode when you select other source.

Note: For operation of the auxiliary equipment, refer to its own Instructions.

Using the Timers



When the System is in use, the display shows other items as well.
For simplicity, we show here only the items described in this section.

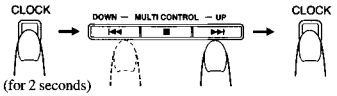
The timers let you control listening functions automatically.

Setting the Clock

You can set the clock whether the System is on or off.

Notes:

- The clock must be correctly set for the timers to work.
- The procedure must be completed within two minutes. Otherwise, the setting is cleared and must be repeated from the beginning.



1 Press the CLOCK button on the Unit for more than two seconds.
The clock rapidly blinks.

2 Press the ⏮ or ⏭ button on the Unit to set the time.
Pressing the ⏭ button moves the time forwards and pressing the ⏮ button moves it backwards. Hold down the button to move the time in 10-minute intervals.

3 Press the CLOCK button.
The selected time is set and the seconds start counting from 0.

- Each time the hour's digits change from 11 to 12, the display alternates between AM andPM. (12 midnight is indicated as "AM 12:00" and 12 noon is indicated as "PM 12:00".)

CAUTION: If there is a power failure, the clock loses its setting after about 20 minutes. The display shows "AM 12:00" and blinks, and the clock must be reset.

Note: The clock may gain or lose one to two minutes per month.

Setting the Daily Timer

You can set the timer whether the System is on or off.

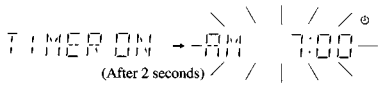
Once you have set the Daily Timer, the timer will be activated at the same time every day. It can be cancelled and re-activated whenever you wish.
The Timer indicator on the display shows when the Daily Timer you have set is in effect.

Note: Perform each setting within 30 seconds. Otherwise, the setting is cleared and the procedure must be repeated from the beginning.

1 Press the POWER button to turn on the System.

2 Setting the ON time (Example: PM 12:15)

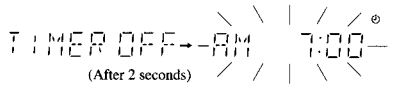
1. Press the TIMER/SNOOZE button on the Unit.
   The Timer indicator lights up and the current ON time blinks on the display.



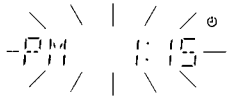
2. Press the ⏭ or ⏮ button on the Unit to set the time you want the Unit to come on.
   Pressing the ⏭ button moves the time forwards and pressing the ⏮ button moves the time backwards. Hold down the button to move the time in 10-minute intervals..

3 Setting the OFF time (Example: PM 1:15)

1. Press the TIMER/SNOOZE button on the Unit.
   The current OFF time blinks on the display.



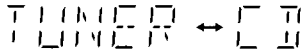
2. Press the ⏭ or ⏮ button on the Unit to set the time you want the Unit to be turned off.
   Pressing the ⏭ button moves the time forwards and pressing the ⏮ button moves the time backwards. Hold down the button to move the time in 10-minute intervals..



4 Selecting the music source

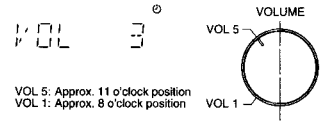
1. Press the TIMER/SNOOZE button on the Unit.
   "TUNER" blinks on the display.

2. Press the ⏭ or ⏮ button to select the music source you want to listen to.
   The display changes as shown below.



5 Setting the volume level

1. Press the TIMER/SNOOZE button on the Unit.
   The current volume setting blinks on the display.
2. Press the ⏭ or ⏮ button to select the volume level
   -- : The current volume level wil be used.
   1 to 5: Low (1) to high (5) level. When the timer is turned on, the Volume will be automatically turned to the set position.



6 Press the TIMER/SNOOZE button on the Unit.
The timer setting is completed and the display returns to the display before you set the timer (The Timer indicator remains lit).

7 Before turning off the Unit, prepare the music source selected in step 4.
Tuner: Tune to the desired station.
CD: Insert a CD.

8 Press the POWER button to turn off the System.

To cancel the timer, press the TIMER/SNOOZE button. The Timer indicator goes out on the display.
To re-activate the cancelled timer, press the TIMER/SNOOZE button to light the Timer indicator. Then, press the TIMER/SNOOZE button repeatedly, until the display returns to the original display before setting the timer (Be sure that the Timer indicator is lit.).
To confirm the timer settings, cancel the timer once by pressing the TIMER/SNOOZE button. Then, press the TIMER/SNOOZE button repeatedly, and you can see the current timer settings (ON time, OFF time, source, and volume).
To change the timer setting, repeat the setting procedure from the beginning.

- When the timer turns on, the Timer indicator starts blinking.
- When the timer turns on, it is possible to fade in the sound from volume level 0 (zero) to the preset volume.

CAUTION: If the System is unplugged, or a power failure occurs, the timer setting will be lost after about 24 hours. You will need to reset the clock first, then the timer.

5-Minute Snoozing

When the timer turns on the music source you can, if you wish, activate the 5-minute snoozing function to temporarily stop playback.

Press the TIMER/SNOOZE button on the Unit.
The "SNZ" indicator lights up on the display and the power is turned off for five minutes for snoozing.

Setting the SLEEP Timer

Use the Sleep Timer to turn the System off after a certain number of minutes when it is playing. By setting the Sleep Timer, you can fall asleep to music and know that your System will turn off by itself rather than play all night.

- You can only set the Sleep Timer when the System is on and a source is playing.

1 Play a CD or tune in to the desired station.

2 Press the SLEEP button on the Unit or the Remote Control.
The "SLEEP" indicator lights up.

3 Set the length of time you want the source to play before shutting off.

- Each time you press the SLEEP button, it changes the number of minutes shown on the display in this sequence:

→ **30** → **60** → **90** → **120** → **Cancelled** → (back to the beginning)

After setting the number of minutes for the Sleep Timer, the display will stop blinking after 5 seconds and return to the display as before setting the Sleep Timer.
The System is now set to turn off after the number of minutes you set.

To Confirm the Sleep Time

When the SLEEP button is pressed, the remaining sleep time is displayed. Wait for 5 seconds until the display returns to the original display.

To Cancel the SLEEP Timer Setting

Press the SLEEP button until the "SLEEP" indicator goes off on the display.
Turning off the System also cancels the SLEEP Timer.

- If you are setting the Daily Timer, the System will be turned on at the set time to wake you up.

Care And Maintenance

Handle your CDs carefully, and they will last a long time.

Compact Discs

- Only CDs bearing this mark can be used with this System. However, continued use of irregular shape CDs (heart-shape, octagonal, etc.) can damage the System.

- Remove the CD from its case by holding it at the edges while pressing the case's center hole lightly.
- Do not touch the shiny surface of the CD, or bend the CD.

- Put the CD back in its case after use to prevent warping.
- Be careful not to scratch the surface of the CD when placing it back in the case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.

- A dirty CD may not play correctly. If a CD does become dirty, wipe it with a soft cloth in a straight line from center to edge.

CAUTION: Do not use any solvent (for example, conventional record cleaner, spray thinner, benzine, etc.) to clean a CD.

Moisture Condensation

Moisture may condense on the lens inside the System in the following cases:

- After turning on heating in the room.
- In a damp room.
- If the System is brought directly from a cold to a warm place.

Should this occur, the System may malfunction. In this case, leave the System turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.

General Notes

In general, you will have the best performance by keeping your CDs and the mechanism clean.

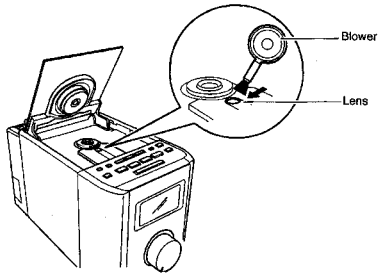
- Store CDs in their cases, and keep them in cabinets or on shelves.
- Keep the system's CD holder closed when not in use.

Cleaning the lens

If the lens in the CD pickup is dirty, dropout, etc., could degrade sound.

Open the CD holder and clean the lens as shown.

- Use a blower (available from a camera store) to blow dust off the lens.



- If there are fingerprints, etc. on the lens, gently wipe clean with a cotton swab.

Troubleshooting

- If you are having a problem with your System, check this list for a possible solution before calling for service.
- If you cannot solve the problem from the hints given here, or the System has been physically damaged, call a qualified person, such as your dealer, for service.

Symptom	Possible Cause	Action
No sound is heard.	• Connections are incorrect, or loose. • Headphones are connected.	• Check all connections and make corrections. (See pages 4 - 5.) • Disconnect the headphones.
Poor radio reception	• The antenna is disconnected. • The AM Loop Antenna is too close to the System. • The FM Wire Antenna is not properly extended and positioned.	• Reconnect the antenna securely. • Change the position and direction of the AM Loop Antenna. • Extend FM Wire Antenna to the best reception position.
The CD skips.	The CD is dirty or scratched.	Clean or replace the CD.
The CD does not play.	The CD is upside down.	Put the CD in with the label side up.
Unable to operate the Remote Control.	• The path between the Remote Control and the sensor on the Unit is blocked • The batteries have lost their charge.	• Remove the obstruction. • Replace the batteries.
Operations are disabled.	The built-in microprocessor has malfunctioned due to external electrical interference.	Unplug the System then plug it back in.

Specifications

Amplifier

Output Power	13 watts per channel, min. RMS, at 4 ohms from 80Hz to 20kHz, with no more than 10% total harmonic distortion (for U.S.A.) 30 W (15 W + 15 W) at 4 ohms (Max.) (For Canada)
Input Sensitivity/Impedance (1 kHz)	
AUX	500 mV/59 kohms
MD/TAPE	500 mV/59 kohms
Output Sensitivity/Impedance (1 kHz)	
MD/TAPE	500 mV/4.9 kohms
Optical out	–21 dBm - –15 dBm
Subwoofer	0 - 155 mV/10 kohms
Speaker terminals	4 - 16 ohms
Phones	16 ohm - 1 kohms 0 - 15 mW/ch output into 32 ohms

CD Player

Signal-To-Noise Ratio	90 dB
Wow And Flutter	Unmeasurable

Tuner

FM Tuner	
Tuning Range	87.5 - 108.0 MHz
AM Tuner	
Tuning Range	530 - 1,710 kHz

Speaker Specifications

(each unit)	
Speakers	8 cm (3-3/16") cone
Impedance	4 ohms
Dimensions	120 × 160 × 186 mm (W/H/D) (4-3/4" × 6-5/16" × 7-3/8")
Mass	Approx. 1.5 kg (3.31 lbs)

General

Dimensions	380 × 164 × 295 mm (W/H/D) (15" × 6-1/2" × 11-5/8")
Mass	Approx. 6.0 kg (13.3 lbs)

Accessories

Power Cord (1)
AM Loop Antenna (1)
Remote Control (1)
Batteries R6P (SUM-3)/AA (15F) (2)
FM Wire Antenna (1)
Speaker Cords (2)

Power Specifications

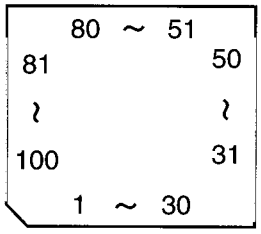
Power Requirements	AC 120 V ~ , 60 Hz
Power Consumption	30 watts (power on mode) 5 watts (in Standby mode)

Design and specifications are subject to change without notice.

Description of Major ICs

■UPD780204GF(IC701):System controller

1.Terminal Layout

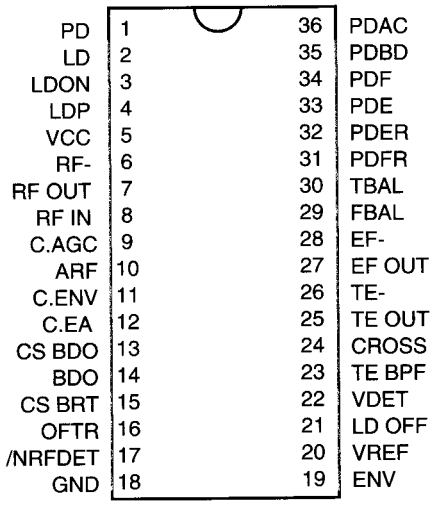


2.Pin Function

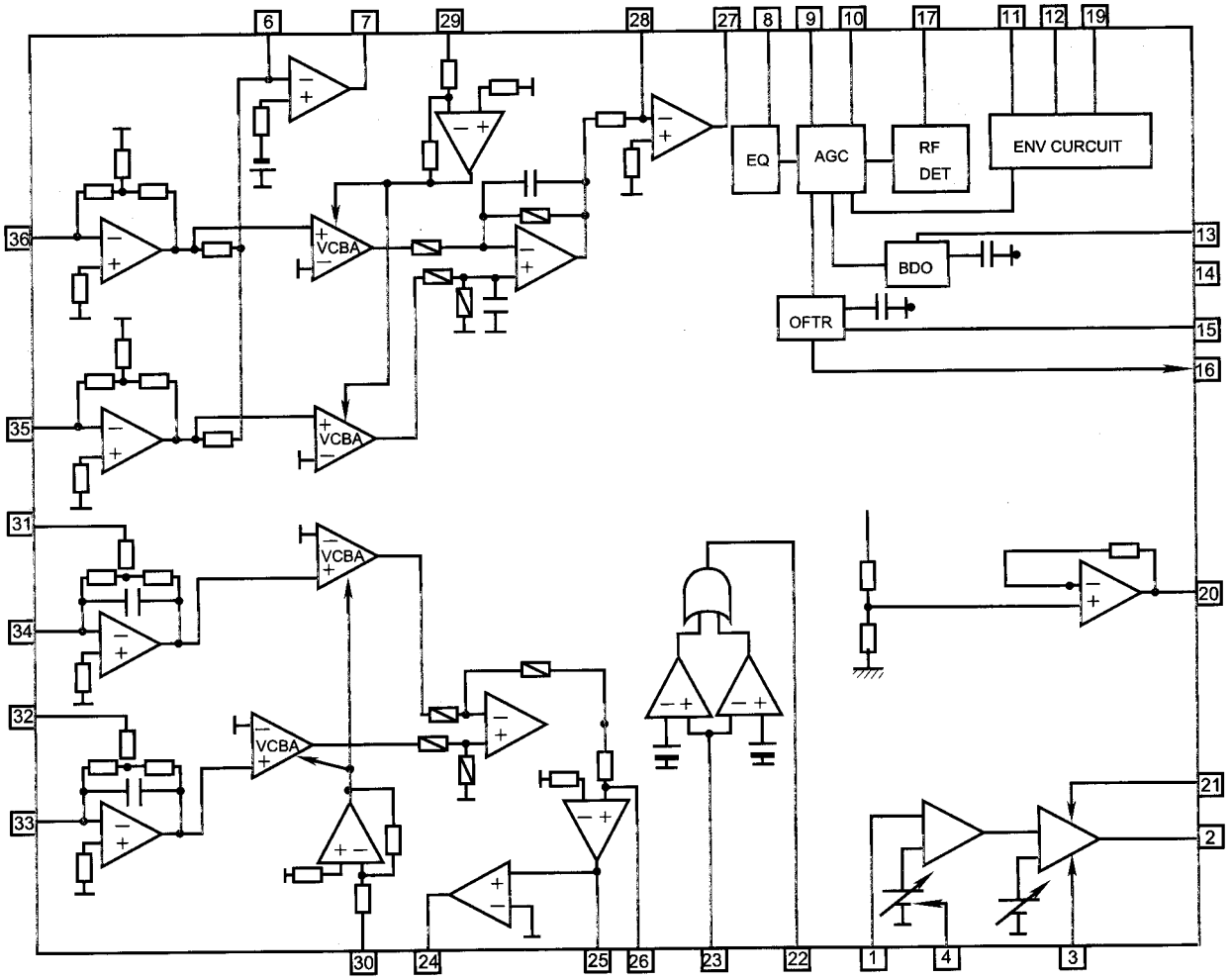
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	VDD	-	Power supply.	29	SAFETY1	I	Detection 1 for abnomal power voltage.
2	STATUS	O	Status signal output to IC603.				
3	XRESET	O	Reset signal output to IC603.	30	SAFETY0	I	Detection 0 for abnomal power voltage.
4	MCLK	O	Clock signal output to IC603.				
5	MDATA	O	Command signal output to IC603.	31	KEY1	I	Key control signal input 1.
6	MLD	O	Load signal output to IC603.	32	KEY0	I	Key control signal input 0.
7	+BCTL	O	Switched 5V control.	33	VOLP	I	Voltage of volume position.
8	BEAT2	O	Main clock selector 2.	34	AVDD	-	Power supply.
9	BEAT1	O	Main clock selector 1.	35	AVREF	-	Power supply.
10	RESET	I	Reset signal input.	36	BASS	O	Bass control signal output.
11	X2	O	Main clock signal.	37	TRE	O	Treble control signal output.
12	X1	I	Main clock signal.	38	RDSCLK	I	Clock signal input from IC4.
13	IC(VPP)	-	Connect to VSS.	39	REM	I	Remote control signal input.
14	XT2	O	Sub clock signal.	40	VSS	-	Connect to GND.
15	XT1	I	Sub clock signal.	41	MT1	O	CD door motor control signal output.
16	VDD	-	Power supply.				
17	SCK	O	Serial clock output to IC317.IC2	42	MT0	O	CD door motor control signal output.
18	SDATA	O	Serial data output to IC317.IC2				
19	STB	O	Strobe signal output to IC317.	43	MTS	O	CD door motor speed (L=normal,H=slow).
20	BUPC	O	Sub clock control				
21	BUP	I	Distinction of backup power source (H=Backup).	44	FAUX1	O	Function AUX 1.
				45	FAUX2	O	Function AUX 2.
22	SQCK	O	Outside clock for sub-code Q resister output.	46	VDD	-	Power supply.
				47	L.O.MUTE	O	Line out mute signal output.
23	NC	-	Non connect.	48	FTU	O	Function Tuner.
24	SUBQ	I	Sub-code / Q-code input.	49	MPX	I	Detection of FM stereo(L=stereo).
25	AVSS	-	Power supply.	50	SMUTE	O	System mute(mute=L).
26	PERIOD	O	Strobe of Tuner PLL.	51	POUT	O	Power ON/OFF.
27	DOOR	I	Door OPEN/CLOSE & REST SW detection.	52~67	S23~S38	O	FL segment control output.
				68~78	S1~S11	O	FL segment control output.
28	SAFETY2	I	Detection 2 for abnormal power voltage.	79	VLOAD	-	Connect to -28V
				80~90	S12~S22	O	FL segment control output.
				91~100	8G~3G	O	FL grid control signal.

■AN8806SB(IC601):RF&Servo AMP

1.Treminal Layout



2.Block Diagram

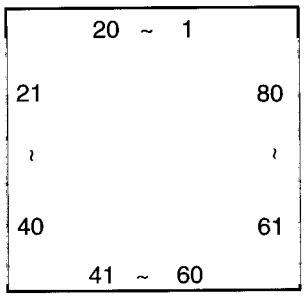


3. Functions

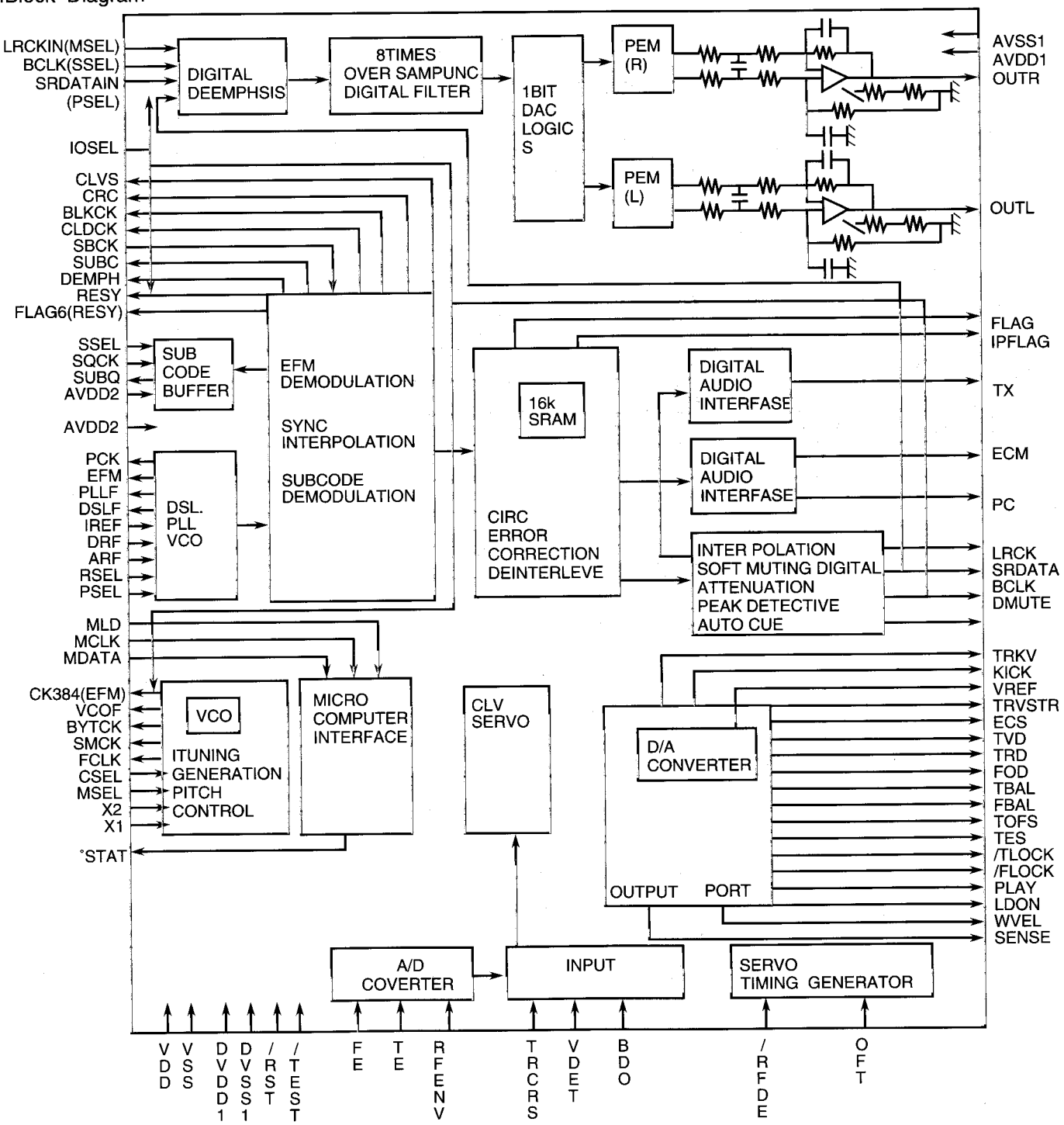
Pin No.	Symbol	I/O	Functions and operations
1	PD	I	APC amp input terminal
2	LD	O	APC amp output terminal
3	LD ON	I	APC ON/OFF control terminal
4	LDP	--	Connect to ground
5	VCC	--	Power supply
6	RF-	I	Inverse input pin for RF amp
7	RF OUT	O	RFamp output
8	RF IN	I	RF input
9	C.AGC	I/O	Connecting pin of AGC loop filter
10	ARF	O	RF output
11	C.ENV	I/O	A capacitor is connected to this terminal to detect the envelope of RF signal
12	C.EA	I/O	A capacitor is connected to this terminal to detect the envelope of RF signal
13	CS BDO	I/O	A capacitor is connected to detect the lower envelope of RF signal
14	BDO	O	BDO output pin
15	CS BRT	I/O	A capacitor is connected to detect the lower envelope of RF signal
16	OFTR	O	Of-track status signal output
17	/NRFDET	O	RF detection signal output
18	GND	--	Ground
19	ENV	O	Envelope output
20	VREF	O	Reference voltage output
21	LD OFF	--	Connect to ground
22	VDET	O	Vibration detection signal output
23	TE BPF	I	Input pin of tracking error through BPF
24	CROSS	O	Tracking error cross output
25	TE OUT	O	Tracking error signal output
26	TE-	I	Inverse input pin for tracking error amp
27	FE OUT	O	Output pin of focus error
28	FE-	I	Inverse input pin for focus error amp
29	FBAL	I	Focus balance control
30	TBAL	I	Tracking balance control
31	PDFR	I/O	F I-V amp gain control
32	PDER	I/O	E I-V amp gain control
33	PDF	I	I-V amp input
34	PDE	I	I-V amp input
35	PD BD	I	I-V amp input
36	PD AC	I	I-V amp input

■MN35510(IC603):DIGITAL SERVO&DIGITAL SIGNAL PROCESSER

1. Terminal Layout



2.Block Diagram

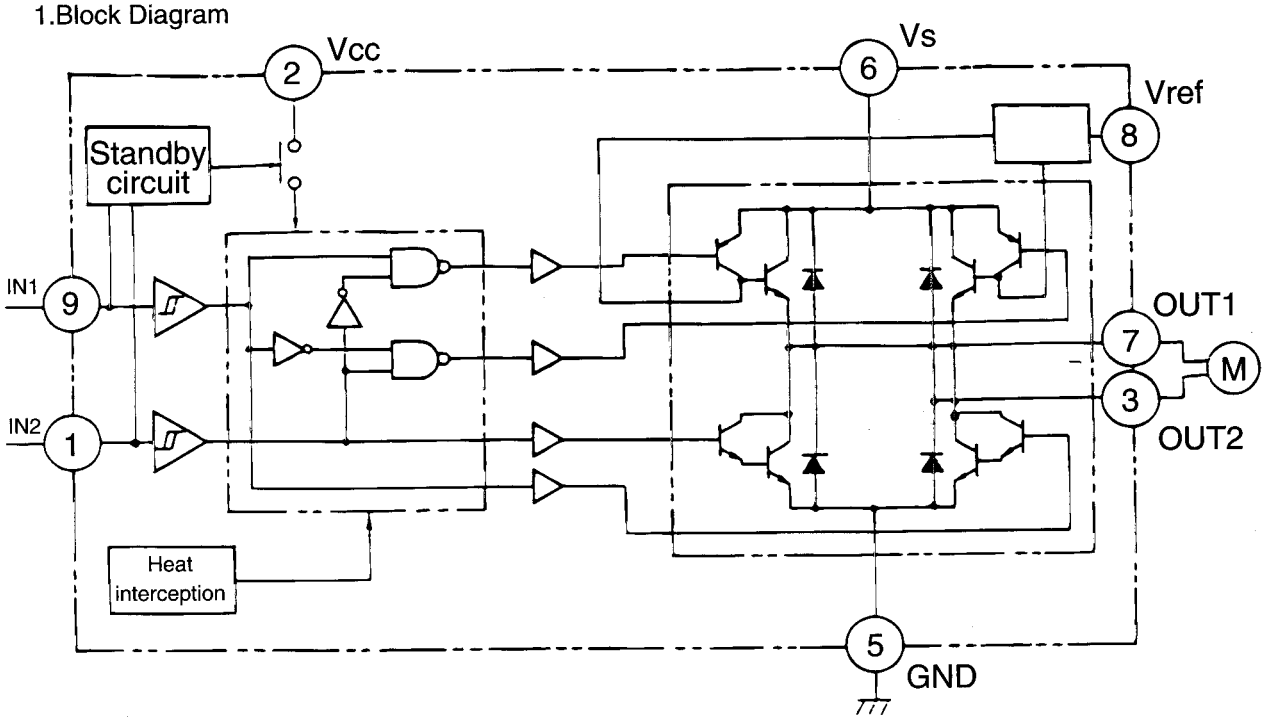


3. Description

Pin No.	symbol	I/O	Description	Pin No.	symbol	I/O	Description
1	BCLK	O	Not used	41	TES	O	Tracking error shunt signal output(H:shunt)
2	LRCK	O	Not used	42	PLAY	—	Not used
3	SRDATA	O	Not used	43	WVEL	—	Not used
4	DVDD1	—	Power supply (Digital)	44	ARF	I	RF signal input
5	DVSS1	—	Connected to GND	45	IREF	I	Reference current input pin
6	TX	O	Digital audio interface output	46	DRF	I	Bias pin for DSL
7	MCLK	I	μcom command clock signal input (Data is latched at signal's rising point)	47	DSLF	I/O	Loop filter pin for DSL
8	MDATA	I	μcom command data input	48	PLLF	I/O	Loop filter pin for PLL
9	MLD	I	μcom command load signal input	49	VCOF	—	Not used
10	SENSE	O	Sence signal output	50	AVDD2	—	Power supply(Analog)
11	FLOCK	O	Focus lock signal output Active :Low	51	AVSS2	—	Connected to GND(Analog)
12	TLOCK	O	Tracking lock signal output Active :Low	52	EFM	—	Not used
13	BLKCK	O	sub-code·block·clock signal output	53	PCK	—	Not used
14	SQCK	I	Outside clock for sub-code Q resister input	54	PDO	—	Not used
15	SUBQ	O	Sub-code Q -code output	55	SUBC	—	Not used
16	DMUTE	—	Connected to GND	56	SBCK	—	Not used
17	STATUS	O	Status signal (CRC,CUE,CLVS,TTSTOP,ECLV,SQOK)	57	VSS	—	Connected to GND(for X'tal oscillation circuit)
18	RST	I	Reset signal input (L:Reset)	58	XI	I	Input of 16.9344MHz X'tal oscillation circuit
19	SMCK	—	Not used	59	X2	O	Output of X'tal oscillation circuit
20	PMCK	—	Not used	60	VDD	—	Power supply(for X'tal cscillation circuit)
21	TRV	O	Traverse enforced output	61	BYTCK	—	Not used
22	TVD	O	Traverse drive output	62	CLDCK	—	Not used
23	PC	—	Not used	63	FLAG	—	Not used
24	ECM	O	Spindle motor drive signal (Enforced mode output) 3-State	64	IPPLAG	—	Not used
25	ECS	O	Spindle motor drive signal (Servo error signal output)	65	FLAG	—	Not used
26	KICK	O	Kick pulse output	66	CLVS	—	Not used
27	TRD	O	Tracking drive output	67	CRC	—	Not used
28	FOD	O	Focus drive output	68	DEMPH		Not used
29	VREF	I	Reference voltage input pin for D/A output block (TVD,FOD,FBA,TBAL)	69	RESY	—	Not used
30	FBAL	O	Focus Balance adjust signal output	70	IOSEL	—	pull up
31	TBAL	O	Tracking Balance adjust signal output	71	TEST	—	pull up
32	FE	I	Focus error signal input(Analog input)	72	AVDD1	—	Power supply(Digital)
33	TE	I	Tracking error signal input(Analog input)	73	OUT L	O	Lch audio output
34	RF ENV	I	RF envelope signal input(Analog input)	74	AVSS1	—	Connected to GND
35	VDET	I	Vibration detect signal input(H:detect)	75	OUT R	O	Rch audio output
36	OFT	I	Off track signal input(H:off track)	76	RSEL	—	pull up
37	TRCRS	I	Track cross signal input	77	CSEL	—	Connected to GND
38	RFDET	I	RF detect signal input(L:detect)	78	PSEL	—	Connected to GND
39	BDO	I	BDO input pin(L:detect)	79	MSEL	—	Connected to GND
40	LDON	O	Laser ON signal output(H:on)	80	SSEL	—	Pull up

■TA8409S(IC401.IC501):Motor Driver

1.Block Diagram

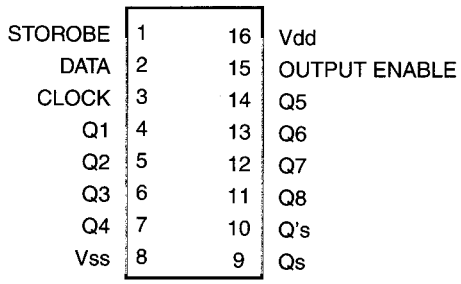


2.Function

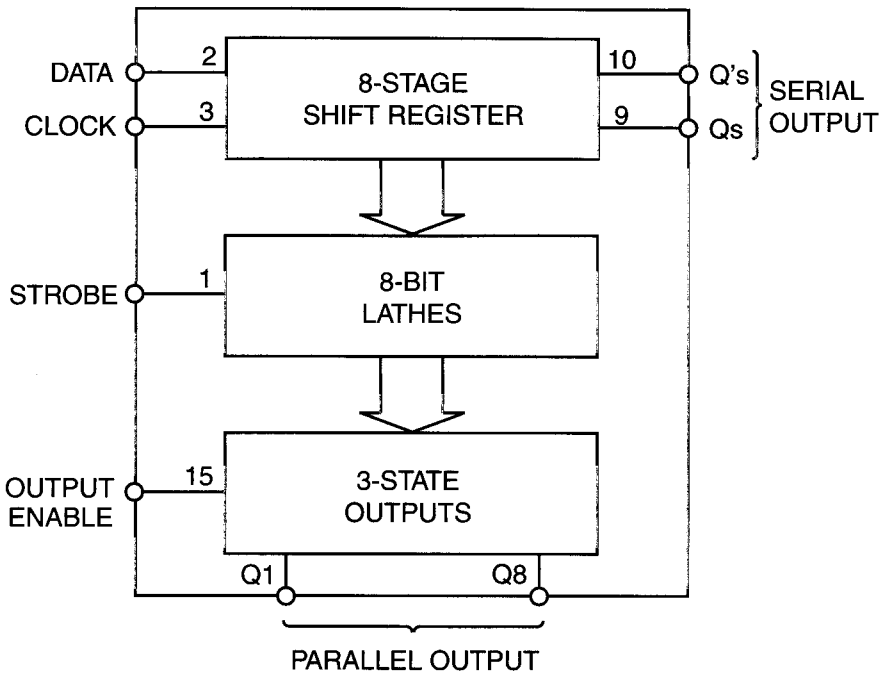
INPUT		OUTPUT		MODE
IN1	IN2	OUT1	OUT2	MOTOR
0	0	∞	∞	STOP
1	0	H	L	CW/CCW
0	1	L	H	CCW/CW
1	1	L	L	BRAKE

■BU4094BC(IC317):SERIAL TO PARALLEL PROT EXTENSION

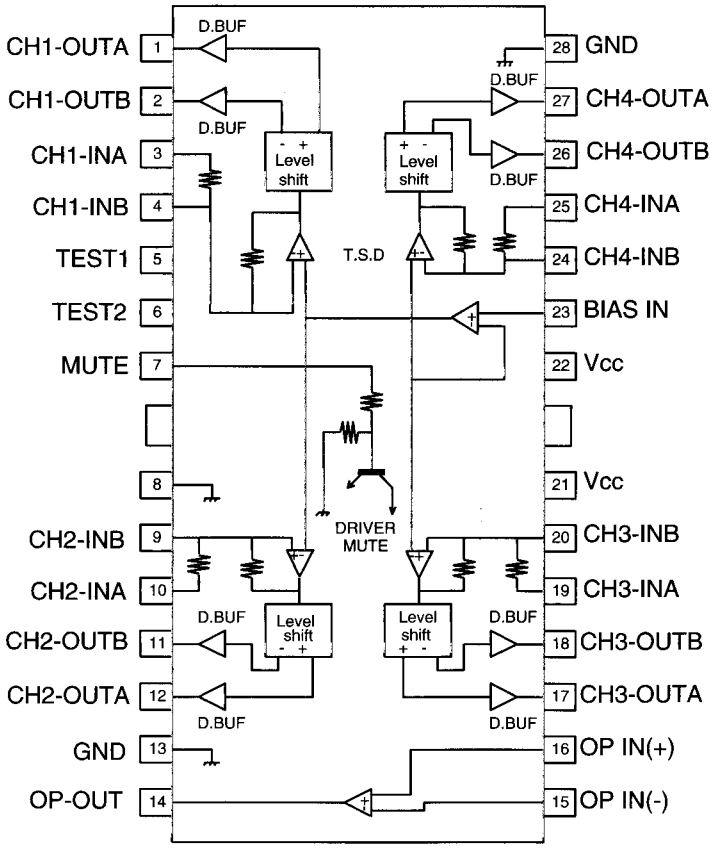
1.Terminal Layout



2.Block Diagram

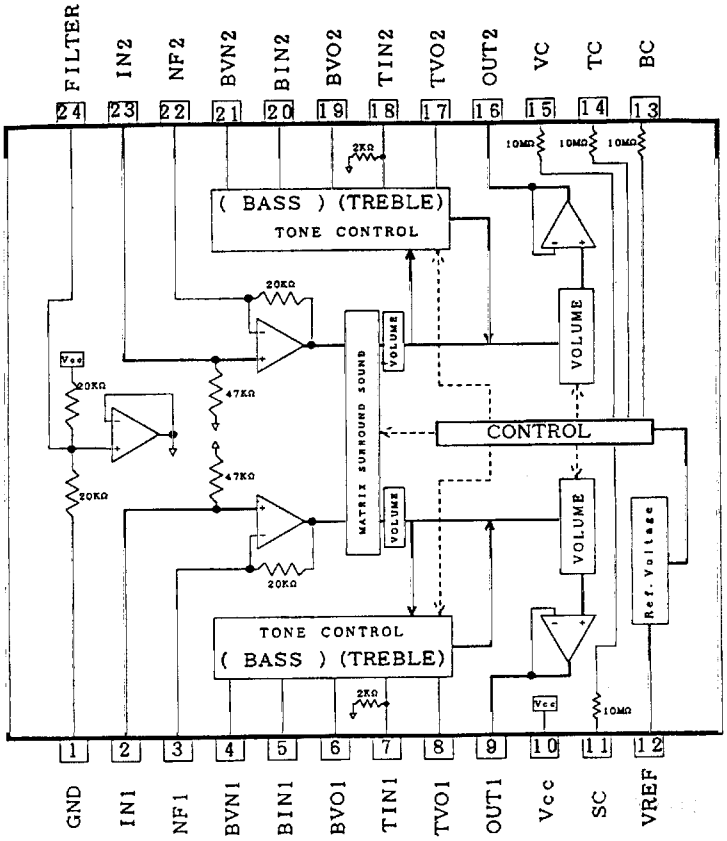


■BA6897FP-W(IC602) 4channel driver



■BH3852S(IC308):E.VOLUME

1.Block Diagrams

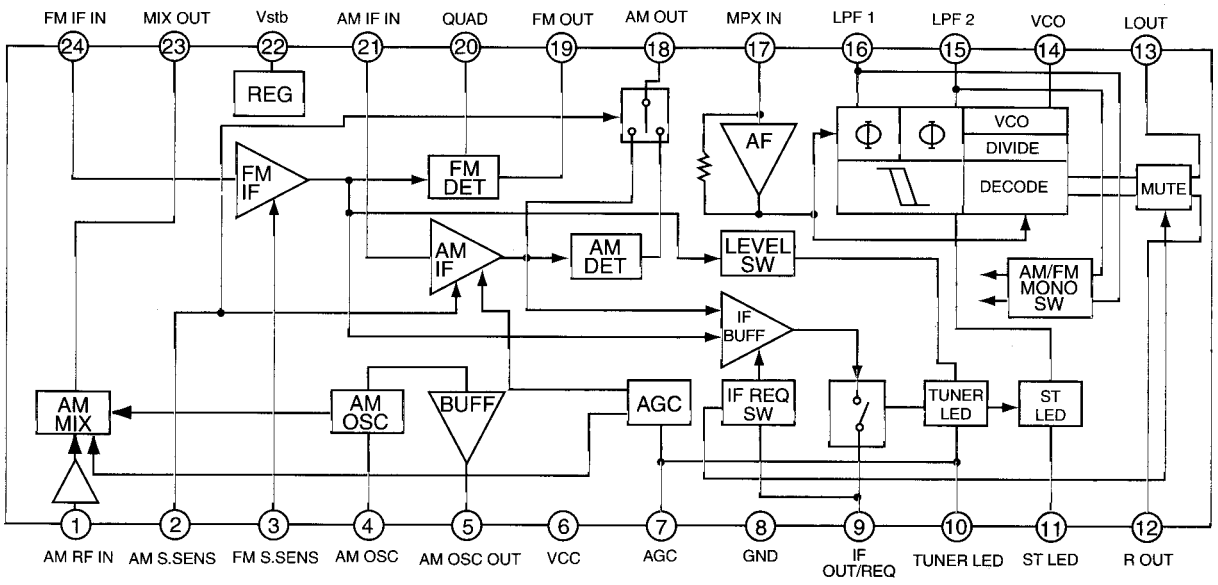


2.Pin Function

PinNo.	Symbol	I/O	Function	PinNo.	Symbol	I/O	Function
1	GND	-	Connect to GND.	13	BASS	I	Terminal for bass control.
2	IN1	I	Terminal for 1ch volume input.	14	TRE	I	Terminal for treble control.
3	NF1	I	Terminal for gain adjustment of input step AMP.	15	VOL	I	Terminal for volume control.
				16	OUT2	O	Terminal for 2ch volume output.
4~6	BASS1	-	Terminal for connection of 1ch low-frequency filter.	17.18	TRE2	-	Terminal for connection of 2ch high-frequency filter.
7.8	TRE1	-	Terminal for connection of 1ch high-frequency filter.	19~21	BASS2	-	Terminal for connection of 2ch low-frequency filter.
9	OUT1	O	Terminal for 1ch volume output.	22	NF2	I	Terminal for gain adjustment of input step AMP.
10	VCC	-	Terminal for power supply.				
11	LIVE	-	Terminal for surround control.	23	IN2	I	Terminal for 2ch volume intput.
12	VREF	O	Terminal for referance voltage output.	24	VSET	-	Terminal for filter.

■TA2057N(IC1):FM/AM IF AMP & Detector

1.Block Diagrams

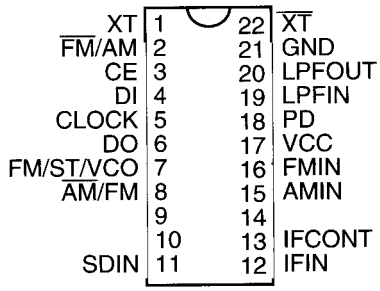


2.Pin Function

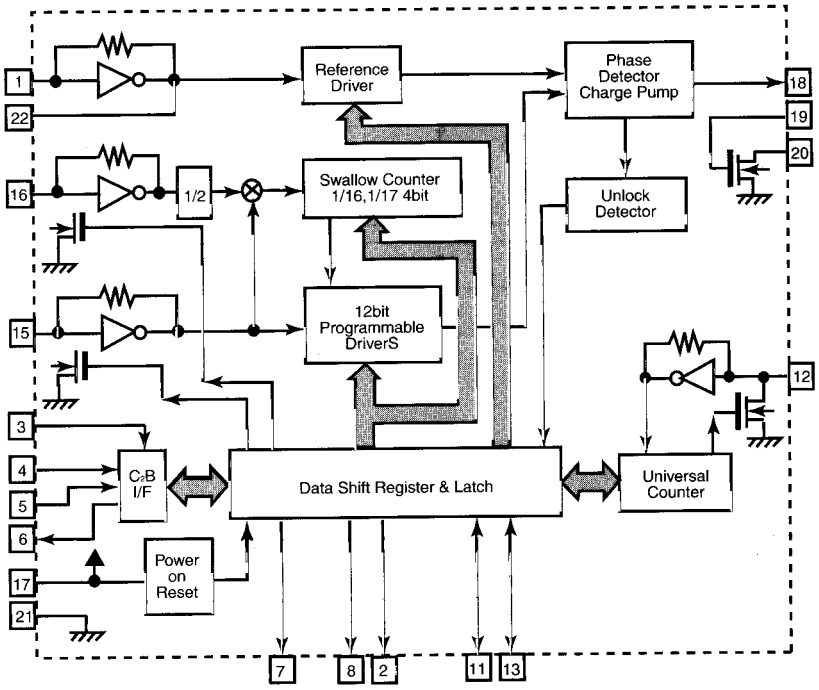
Pin No.	I/O	Symbol	Function	Pin No.	I/O	Symbol	Function
1	I	AM RF	AMRF signal input	13	O	Lch OUT	Output Lch
2		AM S.SENS		14	O	VCO	Voltage controlled terminal
3		FM S.SENS		15	O	LPF2	When voltage of terminal is MONO
4	-	AM OSC	AM local oscillation circuit				at "H" and ST at "L"
5	O	AM OSC OUT	AM local oscillation signal output	16	O	LPF1	When voltage of terminal is AM at
6	-	VCC	Power supply				"H" and FM at "L"
7	I	AGC	AGC voltage input terminal	17	I	MPX IN	Multi plex signal input
8	-	GND	Connect to GND	18	O	AM OUT	AM detection signal output
9	O	IF OUT	IF REQ signal output to IC2	19	O	FM OUT	FM detection signal output
10	O	TU IND	Indicator drive output when tuning	20	I	FM QUAD	Bypass to FMIF
11	O	ST IND	Stereo indicator output	21	I	AM IF IN	Input of AMIF signal
			"H"mono . "L"stereo	22	-	Vst	Fixed voltage output terminal
12	O	Rch OUT	Output Rch	23	O	AM MIX OUT	Output terminal for AM mixer
				24	I	FM IF IN	Input of FMIF signal

■LC72136N(IC2):PLL Frequency sinsesizer LSI

1. Layout



2. Block



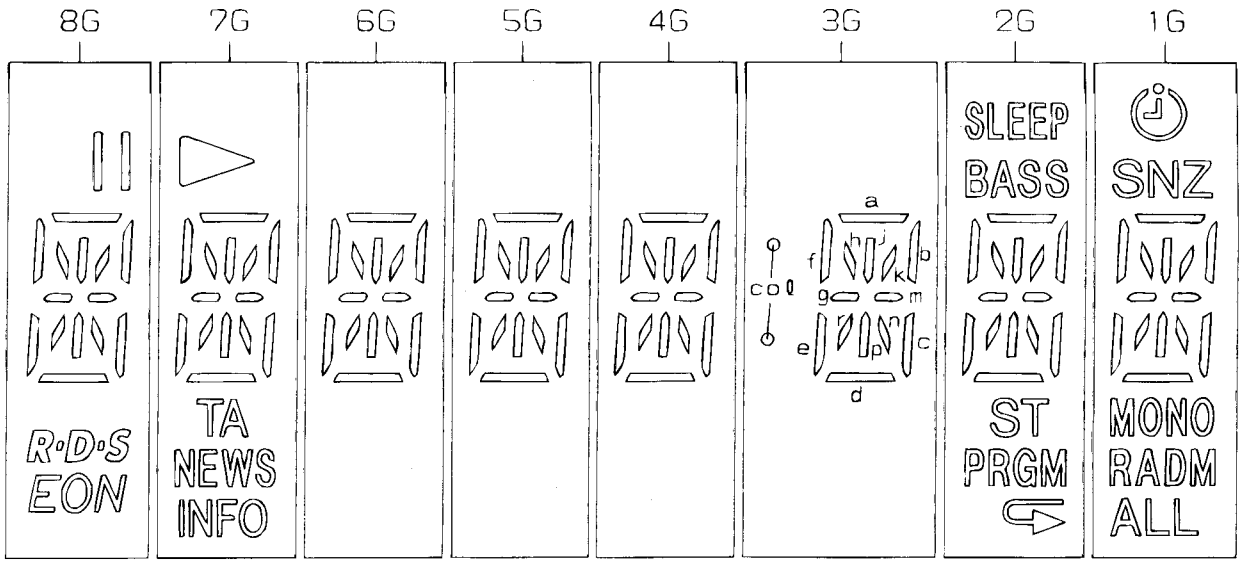
3. Function

Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	XT	I	X'tal oscillator connect (75KHz)	12	IFIN	I	IF counter signal input
2	FM/AM	O	LOW:FM mode	13	IFCONT	O	IF signal output
3	CE	I	When data output/input for 4pin(input) and 6pin(output): H	14		-	Not use
4	DI	I	Input for receive the sirisl data from controller	15	AMIN	I	AM Local OSC signal output
5	CLOCK	I	Sync signal input use	16	FMIN	I	FM Local OSC signal input
6	DO	O	Data output for Controller Output port	17	VCC	-	Power suplly(VDD=4.5~5.5V) When power ON:Reset circuit move
7	FM/ST/VCO	O	"Low": MW mode	18	PD	O	PLL charge pump output(H: Local OSC frequency Height than Reference frequency. L: Low Agreement: Height impedance)
8	AM/FM	O	Not use	19	LPFIN	I	Input for active lowpassfilter of PLL
9	—	-	Not use	20	LPFOUT	O	Output for active lowpassfilter of PLL
10		-	Input/output port	21	GND	-	Connected to GND
11	SDIN	I/O	Data input/output	22	XT	I	X'tal oscillator(75KHz)

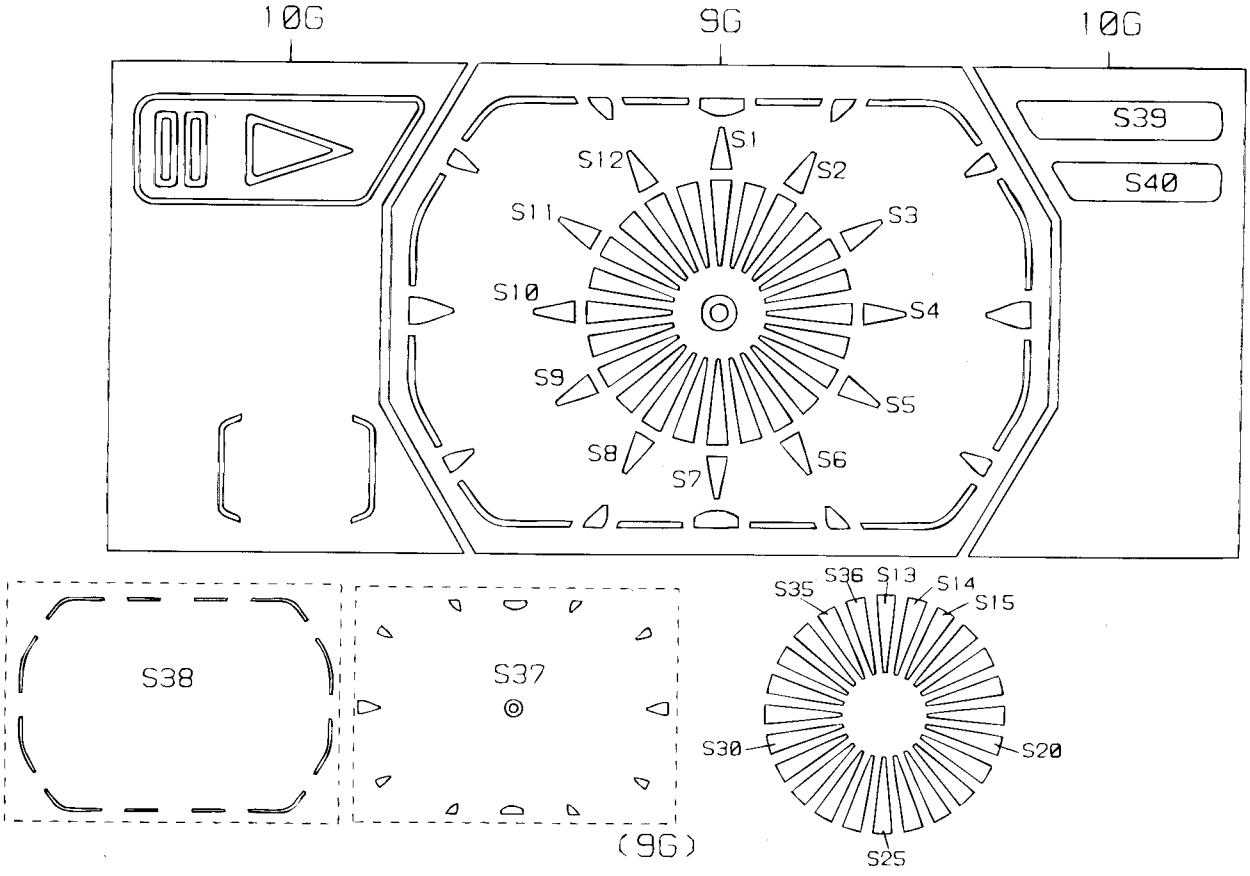
Internal Connections of FL Display

■QLF0048-001(DI701):FL DISPLAY

Front grid assignment



Rear grid assignment



ANODE CONNECTION

	10G	9G	8G	7G	6G~4G	3G	2G	1G
P1	-	S1	-	-	-	-	SLEEP	⏻
P2	-	S2	⏸	▷	-	-	BASS	SNZ
P3	-	S3	a	a	a	a	a	a
P4	-	S4	b	b	b	b	b	b
P5	-	S5	f	f	f	f	f	f
P6	-	S6	k	k	k	k	k	k
P7	-	S7	j	j	j	j	j	j
P8	-	S8	h	h	h	h	h	h
P9	-	S9	m	m	m	m	m	m
P10	-	S10	g	g	g	g	g	g
P11	-	S11	n	n	n	n	n	n
P12	-	S12	p	p	p	p	p	p
P13	-	S13	r	r	r	r	r	r
P14	-	S14	c	c	c	c	c	c
P15	-	S15	e	e	e	e	e	e
P16	-	S16	d	d	d	d	d	d
P17	-	S17	-	TA	-	COL (F)	ST	MONO
P18	-	S18	R·D·S	NEWS	-	COL (上)	PRGM	RADM
P19	-	S19	EON	INFO	-	-	↪	ALL

	10G	9G	8G	7G	6G~4G	3G	2G	1G
P20	-	S20	-	-	-	-	-	-
P21	-	S21	-	-	-	-	-	-
P22	-	S22	-	-	-	-	-	-
P23	[ ]	S23	-	-	-	-	-	-
P24	▱	S24	-	-	-	-	-	-
P25	▯▯	S25	-	-	-	-	-	-
P26	▷	S26	-	-	-	-	-	-
P27	-	S27	-	-	-	-	-	-
P28	-	S28	-	-	-	-	-	-
P29	-	S29	-	-	-	-	-	-
P30	-	S30	-	-	-	-	-	-
P31	-	S31	-	-	-	-	-	-
P32	-	S32	-	-	-	-	-	-
P33	-	S33	-	-	-	-	-	-
P34	-	S34	-	-	-	-	-	-
P35	-	S35	-	-	-	-	-	-
P36	-	S36	-	-	-	-	-	-
P37	S39	S37	-	-	-	-	-	-
P38	S40	S38	-	-	-	-	-	-

PIN CONNECTION

PIN NO.	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45
CONNECTION	F1	F1	F1	NP	NP	NC	36	64	50	GG	12	GG	78	GG	P2	22	P2	10	P1	98	P1	76	P1	54	NC	P1	43	P1	21	P1	09	P9	87	P7	65	P6	54	P5	32	P3	21	NC	IC	NP	NP	F2	F2	F2

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
CONNECTION	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	10	09	P2	P2	P2	P2	P2	P2	P2	P2	P3	P3	P3	P3	P3	P3	P3	P3	P3	P3	P4	P4	NC	NP	NP	NP	NP	NP

NOTE 1) F1,F2 --- Filament
2) NP ------ No Pin
3) NC ------ No connection
4) DL ------ Datum Line
5) 1G~10G --- Grid
6) IC ------ Internal connection

Removal of main parts

■Removing the rear cover

1.Remove the six screws A retaining the rear cover from behind the body.
2.Remove the two screws B retaining the rear cover from upper the body.
3.Remove the two screws C retaining the rear cover from bottom the body.
4.After passing the lock pawls at the speaker terminals through the position in Fig 1 remove the rear cover.

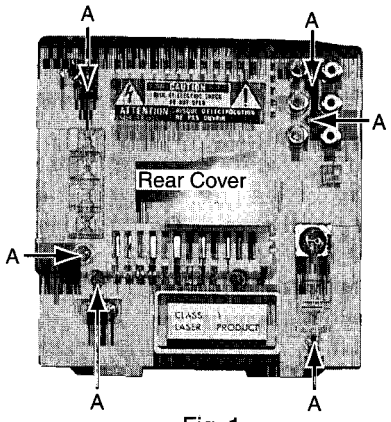


Fig. 1

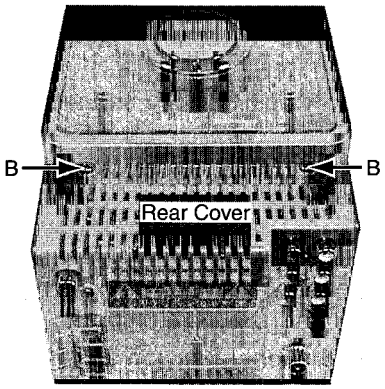


Fig. 2

■Removing the side panel and ornament panel

1.Remove the rear cover.
2.Remove the two screws D retaining the side panel from right and left of body.
3.Remove the two screws E retaining the front panel assembly from the bottom. (See Fig 3)
4.The slide is done in the direction of the arrow and side panels is detached.
5.The slide is done in the direction of the arrow and the ornament panels is detached.

* These parts are installed and rear cover is installed at the end assembly.

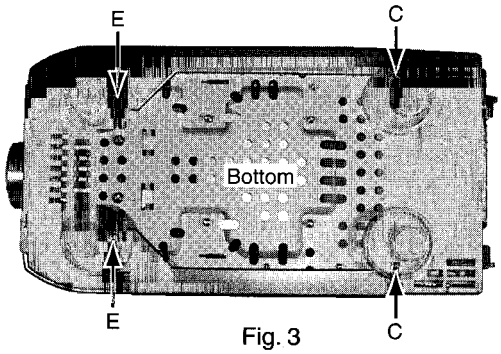


Fig. 3

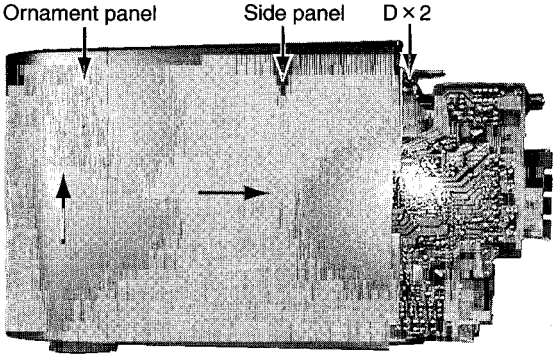


Fig. 4

■Removing the CD player assembly

1.Remove the rear cover from behind the body.
2.Remove the side panels and ornament panels. (L and R)
3.After removing the four screws F from behind the body, dismount the heat sink.
4.Remove the two screws G retaining the CD mechanism assembly from right and left of body.
5.Remove the one screw H retaining the tuner function amplifier P.C.Board.
6.Disconnect the connector from CN602,CN641 on the tuner function amplifier P.C.Board (See Fig 7).
7.Disconnect the card wire from CN603,CN604 on the CD servo control P.C.Board (See Fig 6).
8.Disconnect the connector from CN311 on the main board (See Fig 6-1).
9.Remove the CD player while pulling it out toward the rear side.
Then the connector CN872 connected to the connector CN781 on the FL display microcomputer P.C.Board of the front assembly will be disconnected at the same time.(See Fig 6-1)

* To ensure easy assembly of the CD player assembly, temporarily remove the tuner function amplifier P.C.Board, and after mounting the CD player assembly, assemble the tuner function amplifier P.C.Board.

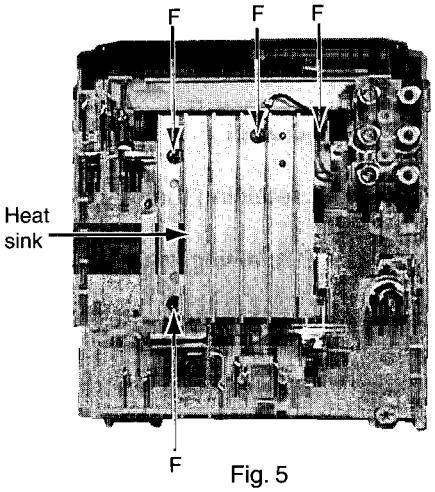


Fig. 5

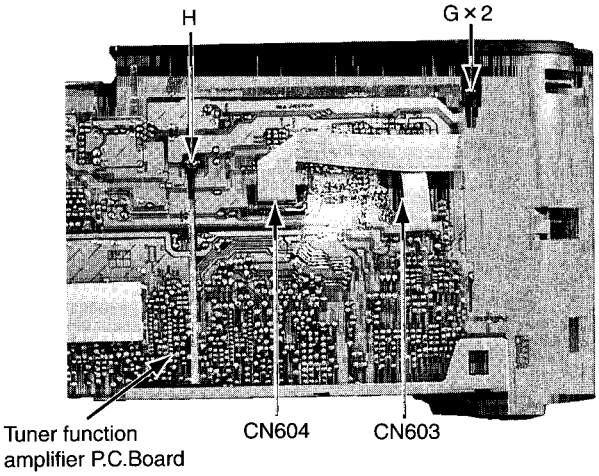


Fig. 6

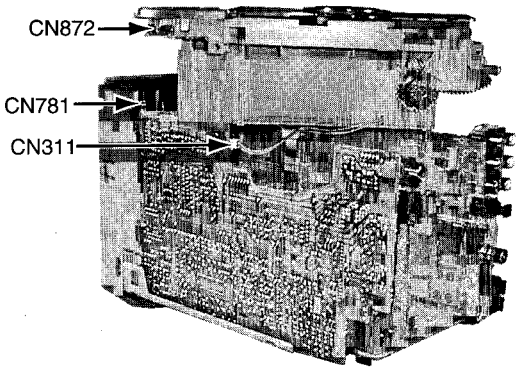


Fig. 6-1

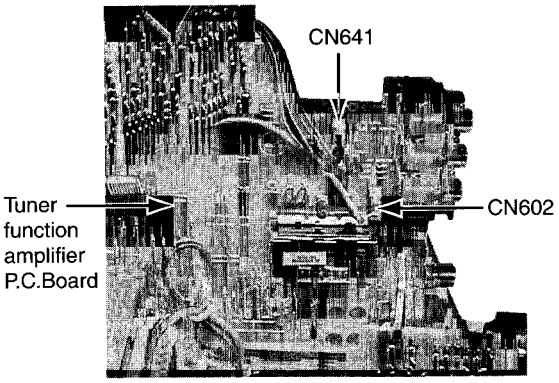


Fig. 7

■Removing the CD servo control P.C.Board

1.Remove the CD mechanism assembly.
2.Remove the four screws I on the CD servo control P.C.Board.
3.Disconnect the card wire from CN601 on the CD servo control P.C.Board.
4.Disconnect the connector from P011 on the Motor P.C.Board.

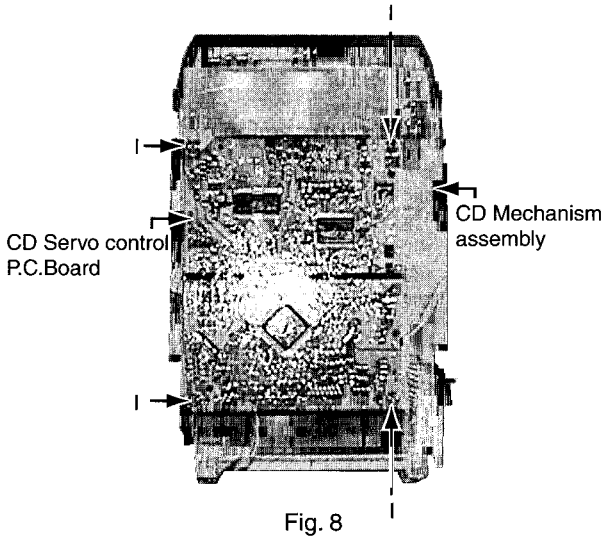


Fig. 8

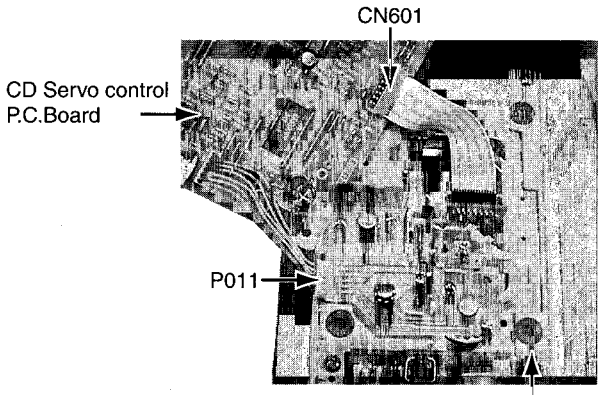


Fig. 9

CD Traverse mechanism assembly

■Removing the CD Traverse mechanism assembly

1.Remove the CD mechanism assembly.
2.Remove the CD servo control P.C.Board.
3.Remove the four screws J retaining the mechanism bracket from CD mechanism assembly.

■Removing the CD motor drive P.C.Board

1.Remove the CD mechanism assembly.
2.Remove the CD servo control P.C.Board.
3.Remove the CD traverse mechanism assembly.
4.Disconnect the loading belt.

*At this time, the grease of the gear must not place to the loading belt.

5.Remove two screws K retaining the loading motor from CD mechanism assembly.

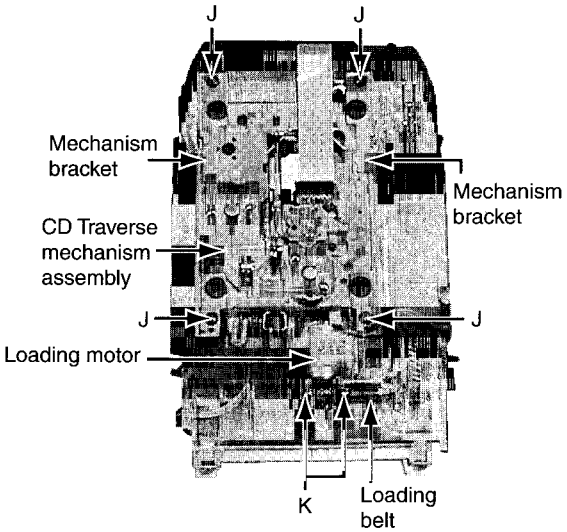


Fig. 10

■Removing the CD door assembly (See Fig 11.12)

Disengage the two engagement section on both the right and left sides of the CD door while expanding the sections outward.

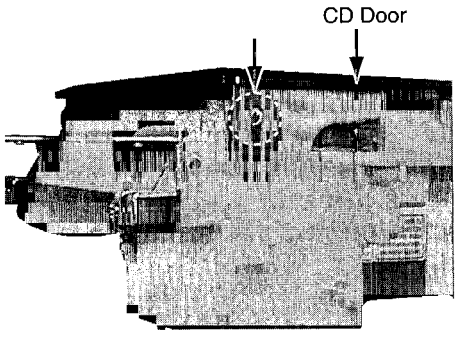


Fig. 11

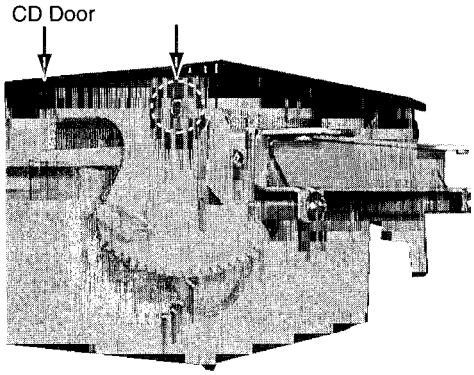


Fig. 12

■Removing the operation switch P.C.Board (See Fig 13.14)

1.Remove the top panel while expanding the right and left side hooks outward.
2.Remove the operation switch P.C.Board upward.

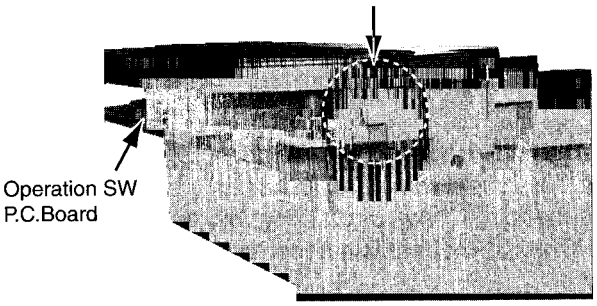


Fig. 13

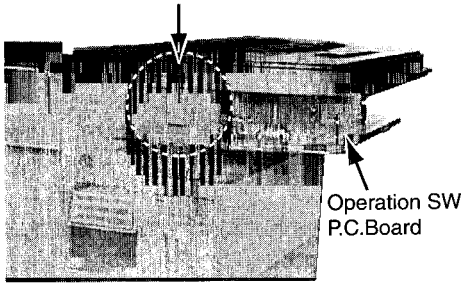


Fig. 14

■Removing the tuner function amplifier P.C.Board

1.Lift connection P.C.Board for above and extract from the connector.
2.Pull out backward and detach tuner function amplifier P.C.Board.

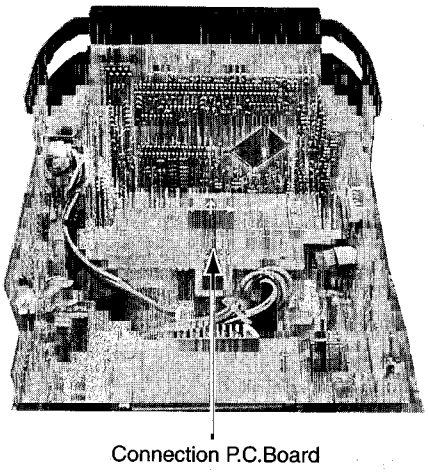


Fig. 15

■Removing the main board

1.Lift connection P.C.Board for above and extract from the connector.
2.Disconnect the connector and card wire from CN971.CN301.CN351 on the main board.
3.Disconnect the connector CN911 on the power supply P.C.Board.
4.Disconnect the earth wire CN391 on the main board.
5.Pull out backward and detach main board.

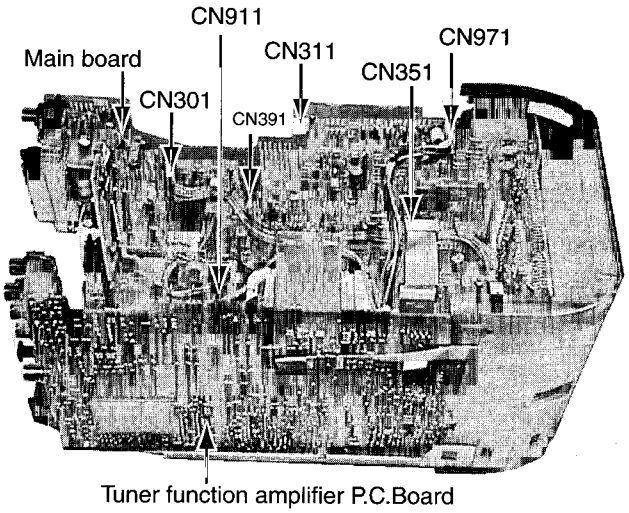


Fig. 16

■Removing the Front panel assembly

1.The volume knob is pulled out.
2.The front panel assembly is detached from the chassis base while removing a right and left hooks 'a'.

■Removing the Front P.C.Board

1.Remove the Front panel assembly.
2.The front P.C.Board is detached while expanding the hook 'b' in two places which is the fixation of front P.C.Board outside.

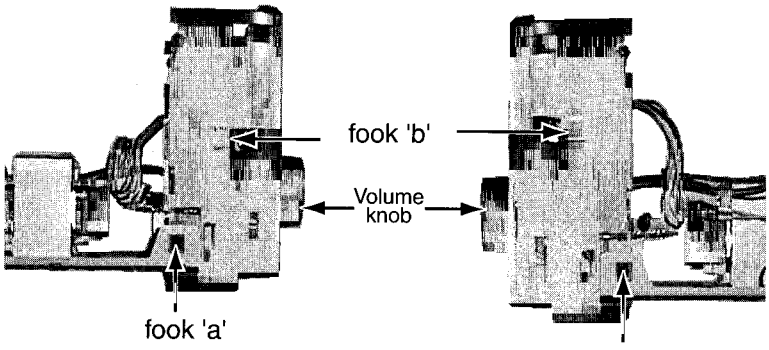


Fig. 17

Fig. 18

Main Adjustment

■Test Instruments required for adjustment

1.Low frequency oscillator
(Frequency range:50Hz to 20kHz)
(Output:0dBs across 600Ω terminating resistor)
2.Attenuator (Impedance:600Ω)
3.Test disc:CTS-1000(Audio)
:CTS-1000&CRG-1211S(Optical Control)
4.Extension cord:Reference Next Page
5.Electronic voltmeter
6.Distortion meter
7.Jitter meter:NJM631
8.TE offset meter:LTM9055

■Measuring conditions(Amplifier section)

Supply voltage
AC120V (60Hz)

Reference output level

Speaker	0dBs(0.775V)/4Ω
Headphone	-20dBs(0.077V)/32Ω
Line out	500mV(-3.8dBs)/47kΩ

Standard test frequency 1kHz

Reference input level AUX -3.8dBs

Output for measuring
At speaker terminal J3003(Dummy load : 4Ω)

Posture of test Horizontal

■Standard position of function switches

Function switch	to AUX
Active hyper-bass pro switch	to OFF

■Standard position of volume control

Bass treble	to center
Main volume adjust	to reference output VOL4

■Remarks of measuring

1.Negative side of the input and output on the measuring system, it ought to be separately to each other.
when using the 2 channels E.V.meter, never connect together on the negative side.

2.This model's amplifier is BTL.
On account of that minus speaker's terminal isn't same potential as earth in BTL (Balanced transformer-less) amplifier.
never connect minus side to the ground or negative.

3.When measuring power output with dummy load.
Connected wire to be used as big as possible.

■Measuring condition(Tuner section)

Power source to tuner:DC5V

AM modulation	400Hz 30%
FM modulation	400Hz deviation 22.5kHz

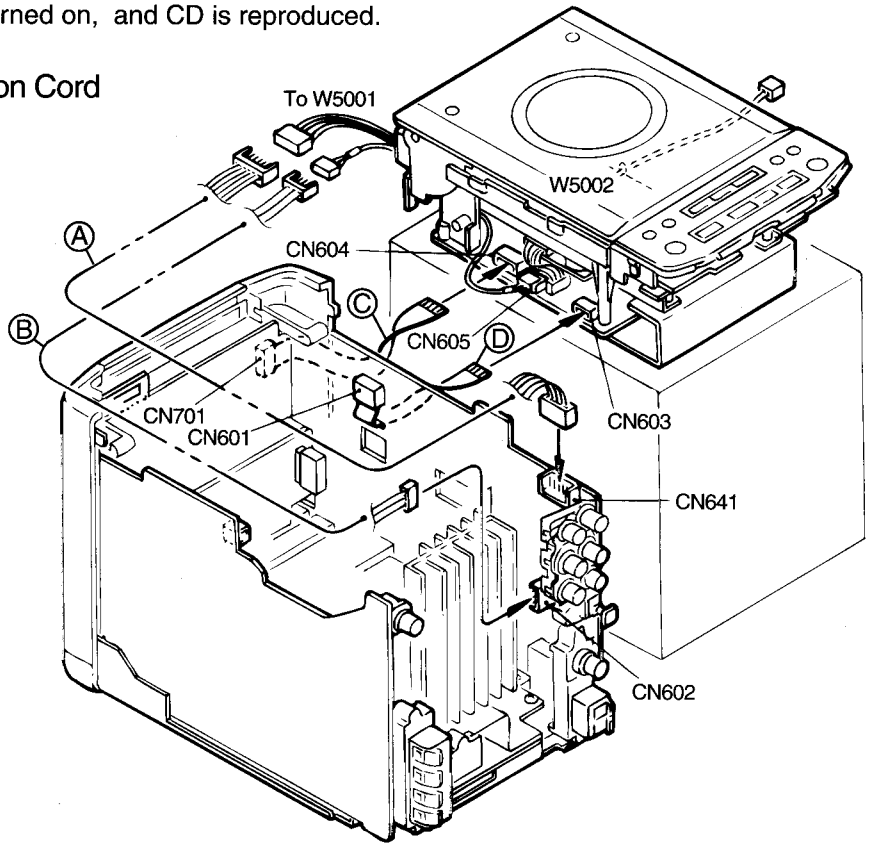
■Operation Confirmation

Do as follows by the method when you do the operation confirmation detaching the CD mechanism part from the main body.

1.Remove the CD mechanism assembly.
2.Operation Switch P.C.Board is detached from the CD mechanism assembly, and Operation Switch P.C.Board is connected with Front P.C.Board.
3.Flat wire A,B,C and D connected with the CD mechanism assembly are made an extension wire.
4.Switch S6382 on the substrate is short-circuited.
5.The disk is turned on, and the CD door is closed.
6.The power supply is turned on, and CD is reproduced.

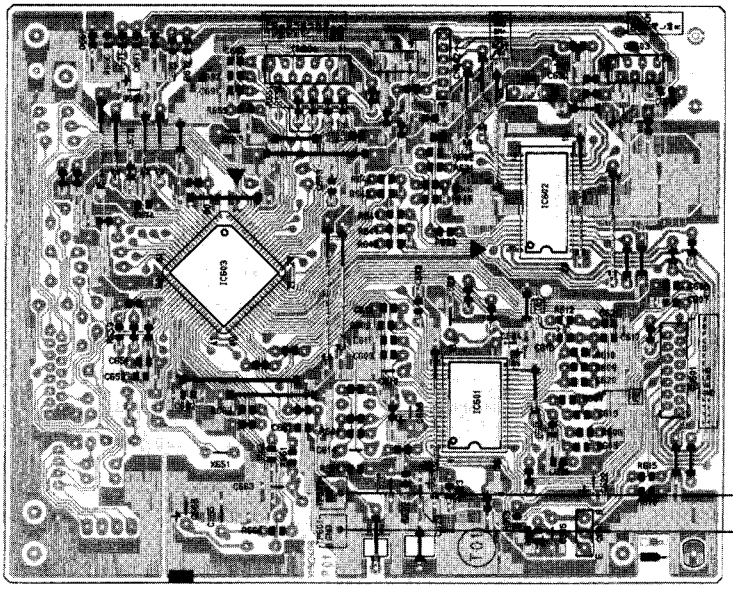
Connect the Extension Cord

Ⓐ VMC0041-005
Ⓑ VMC0041-003
Ⓒ VWF1211-40TTB
Ⓓ VWF1207-40TTB



■Arrangement Checking Test Pont

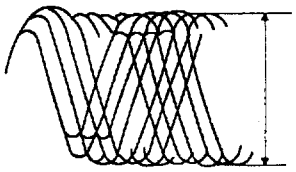
(CD Servo control board)



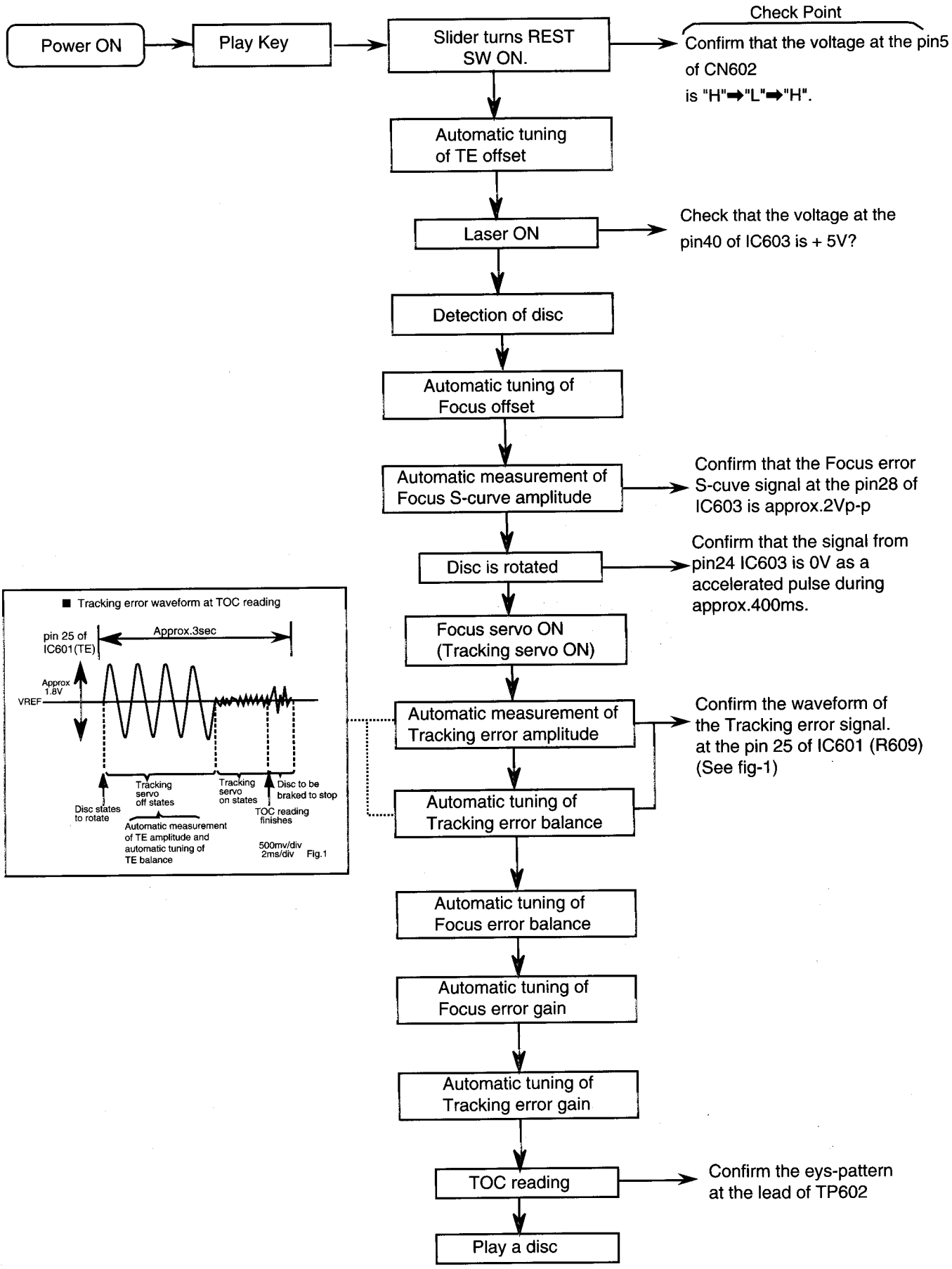
■AMP Section

Items	Conditions	Adjustment and Confirmation Procedure	Standard Value
1.Amplifier gain check	*Measuring instrument :Oscilloscope *Measuring point :AUX IN :Speaker terminal	Input the 1kHz to AUX IN. Main volume is maximum.When speaker output becomes 0dB, input is -16dB ± 4dB.	-16dB ± 4dB
2.Niose level check	*Measuring instrument :Oscilloscope :Voltmeter *Measuring point :AUX IN :Speaker terminal	Switch and volume position Function switch : AUX.Bass treble :flat When main volume becomes maximum, confirm that speaker output is less than 4mV. When main volume becomes minimum, confirm that speaker output is less than 2.5mV	Less than 4mV Less than 2.5mV
3.Sub woofer output check	*Measuring instrument :Oscilloscope :Voltmeter *Measuring point :AUX IN :Sub woofer output terminal *Test disc :CTS-1000	Input the reference frequency 100Hz from AUX IN. By main volume is maximum position, bass and treble is flat position, Confirm the sub woofer output is -14dBs ± 4dB.	-14dBs ± 4dB
4.Super Bass /AHB effect	*Measuring instrument :Oscilloscope *Measuring point :Speaker terminal	Input the reference frequency 80Hz from AUX IN. Confirm the speaker terminal output is 11dB±4dB.	11dB±4dB

■CD Section

Items	Conditions	Adjustment and Confirmation Procedure	Standard Value
1.Jitter check	*Measuring instrument :jitter meter *Test point :TP601(GND side) :TP602(ARF side) *Test disc :CTS-1000	Connect the jitter meter between TP601(GND) and TP602(ARF) and when test disc (track 1) is played, confirm that the meter reading is 26n-sec or less.	26n-sec or less
2.RF level (eye pattern)	*Measuring instrument :Oscilloscope *Test point :TP601(GND side) :TP602(ARF side) *Test disc :CTS-1000	Connect the oscilloscope between TP601(GND) and TP602(ARF) and when test disc (track 1) is played,confirm that peak-to-peak value of oscilloscope waveform is within 1.1V±0.2V. Eye-pattern waveform  The maximum value of this waveform should be in the range of specifications and the waveform should be clear	within 1.1V± 0.2V
3.Outer most area check	*Test disc :CTS-1000	Select "Track 26" on the outer area of test disc directly and check that it begins playback smoothly and that there are no abnormal conditions such as a tracking error.	
4.Pickup unit movement check(From the outer area to the inner area)	*Test disc :CTS-1000	Allow the pickup to skip over from the disc's outer most area to "Track 1" and check that it tales within 10 seconds for the player to enter play mode.	within 10 seconds

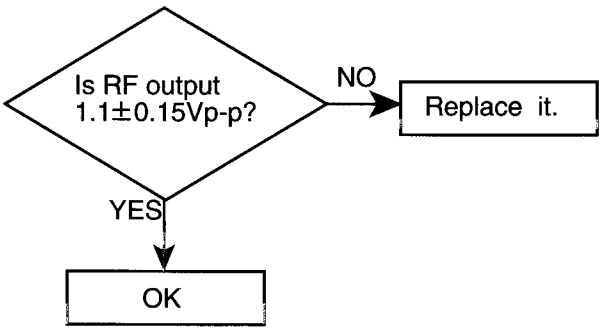
Flow of Functional Operation Until TOC Read


Power ON
Play Key
Slider turns REST SW ON.
Check Point
Confirm that the voltage at the pin5 of CN602 is "H"➡"L"➡"H".
Automatic tuning of TE offset
Laser ON
Check that the voltage at the pin40 of IC603 is + 5V?
Detection of disc
Automatic tuning of Focus offset
Automatic measurement of Focus S-curve amplitude
Confirm that the Focus error S-cuve signal at the pin28 of IC603 is approx.2Vp-p
Disc is rotated
Confirm that the signal from pin24 IC603 is 0V as a accelerated pulse during approx.400ms.
Focus servo ON (Tracking servo ON)
Automatic measurement of Tracking error amplitude
Confirm the waveform of the Tracking error signal. at the pin 25 of IC601 (R609) (See fig-1)
Automatic tuning of Tracking error balance
Automatic tuning of Focus error balance
Automatic tuning of Focus error gain
Automatic tuning of Tracking error gain
TOC reading
Confirm the eys-pattern at the lead of TP602
Play a disc
■ Tracking error waveform at TOC reading
pin 25 of IC601(TE)
Approx.3sec
Approx 1.8V
VREF
Disc states to rotate
Tracking servo off states
Tracking servo on states
Disc to be braked to stop
TOC reading finishes
Automatic measurement of TE amplitude and automatic tuning of TE balance
500mv/div
2ms/div
Fig.1

Maintenance of Laser Pickup

(1) Cleaning the pick up lens
Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

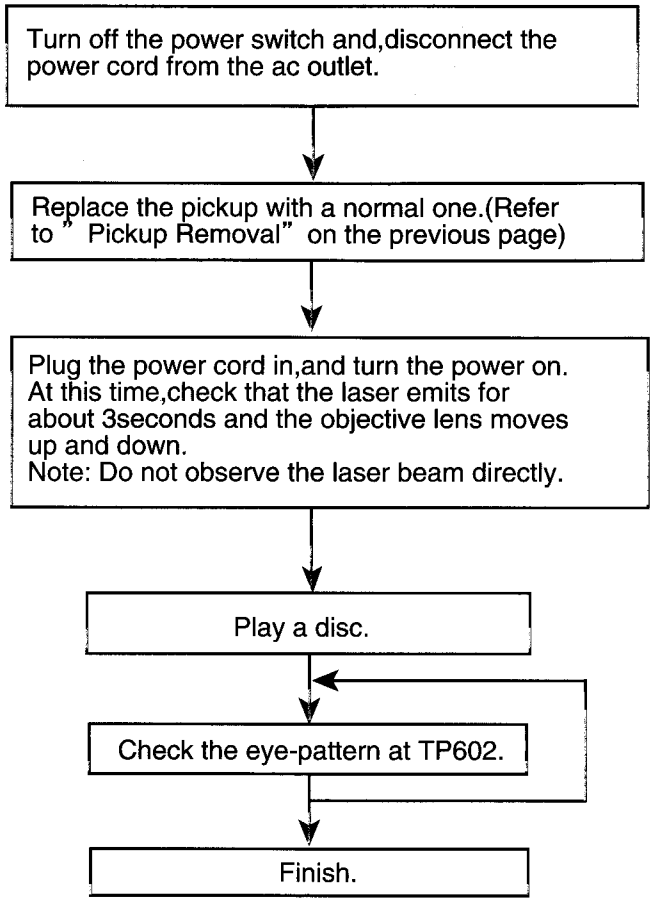
(2) Life of the laser diode (Fig.1)
When the life of the laser diode has expired, the following symptoms wil appear.
(1) The level of RF output (EFM output:amplitude of eye pattern) will below.



(Fig.1)

(3) Semi-fixed resistor on the APC PC board
The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power.Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.
If the laser power is lower than the specified value,the laser diode is almost worn out, and the laser pickup should be replaced.
If the semi-fixed resistor is adjusted while the pickup is functioning normally,the laser pickup may be damaged due to excessive current.

Replacement of Laser Pickup


Turn off the power switch and,disconnect the power cord from the ac outlet.
Replace the pickup with a normal one.(Refer to " Pickup Removal" on the previous page)
Plug the power cord in,and turn the power on. At this time,check that the laser emits for about 3seconds and the objective lens moves up and down.
Note: Do not observe the laser beam directly.
Play a disc.
Check the eye-pattern at TP602.
Finish.

Self Diagnosis Function of CD

1. Purpose

This function is designed to display an error to readily clarify the cause of such an error should any trouble occur in CD.

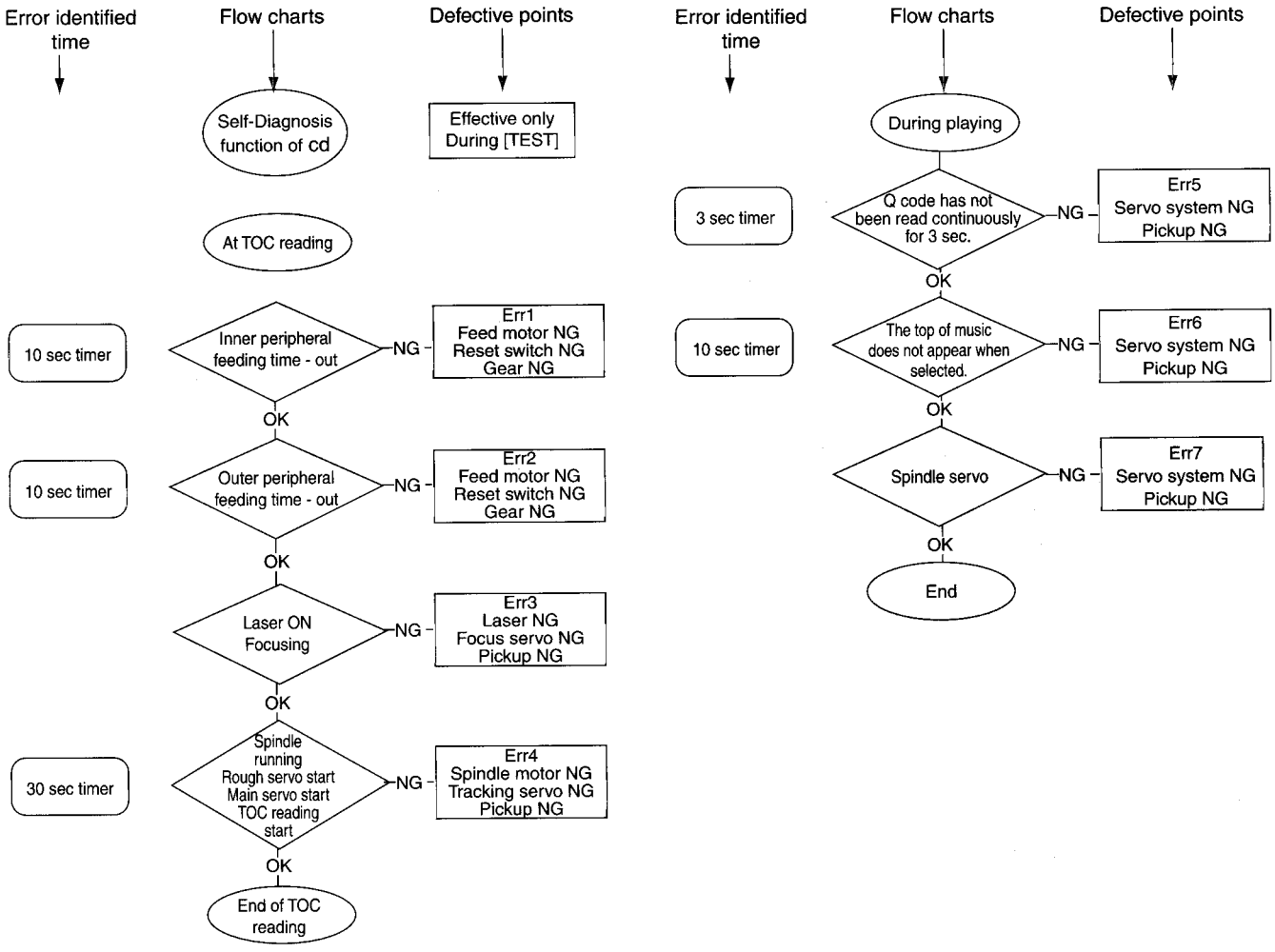
2. How to Use the Function

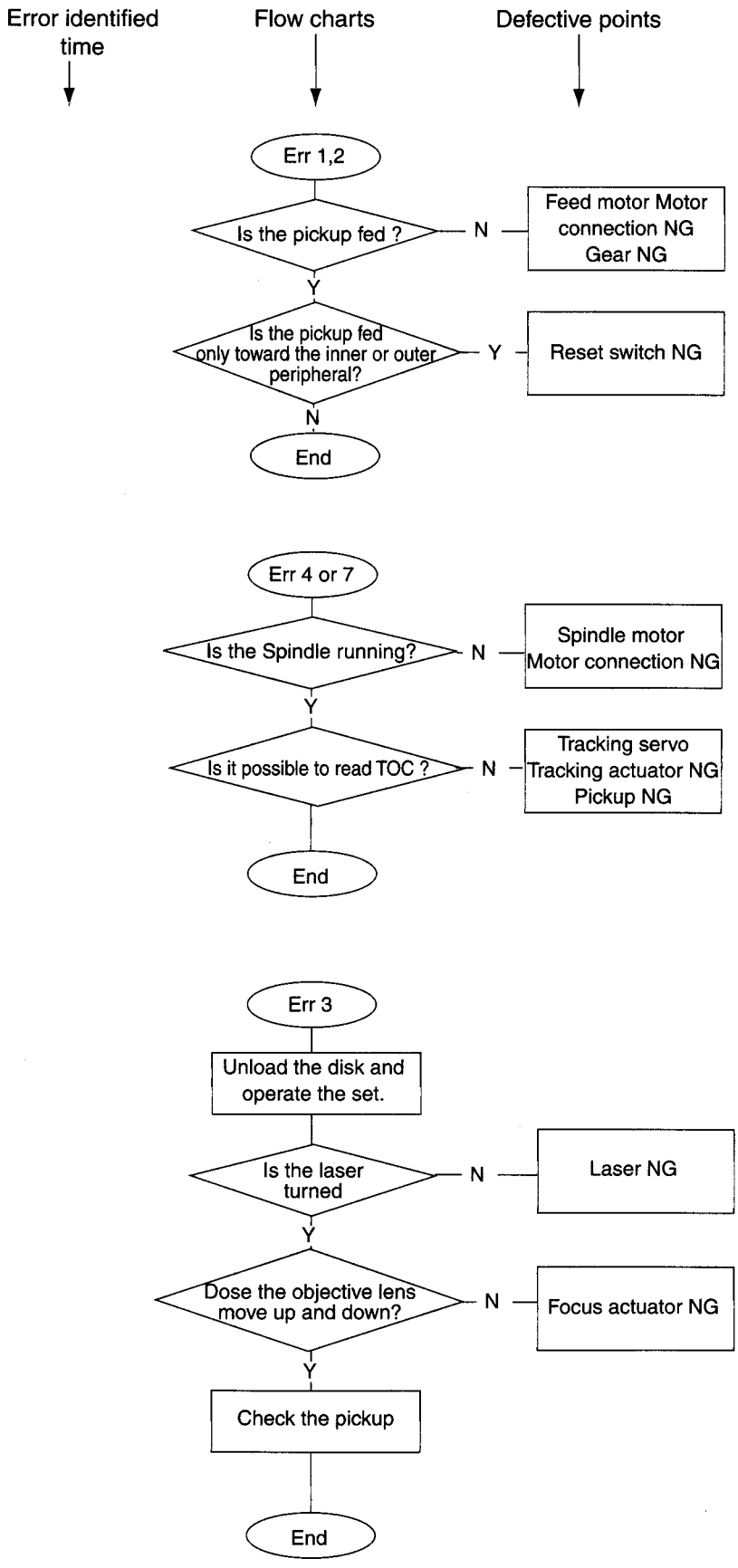
(1) Turn the microcomputer action of the set to [TEST] mode.

(2) Press STOP + VOLUME- + POWER on the remote control same time. Confirm that all of the LCDs have been turned on when set to the [TEST] mode subsequent to the step in item (2).

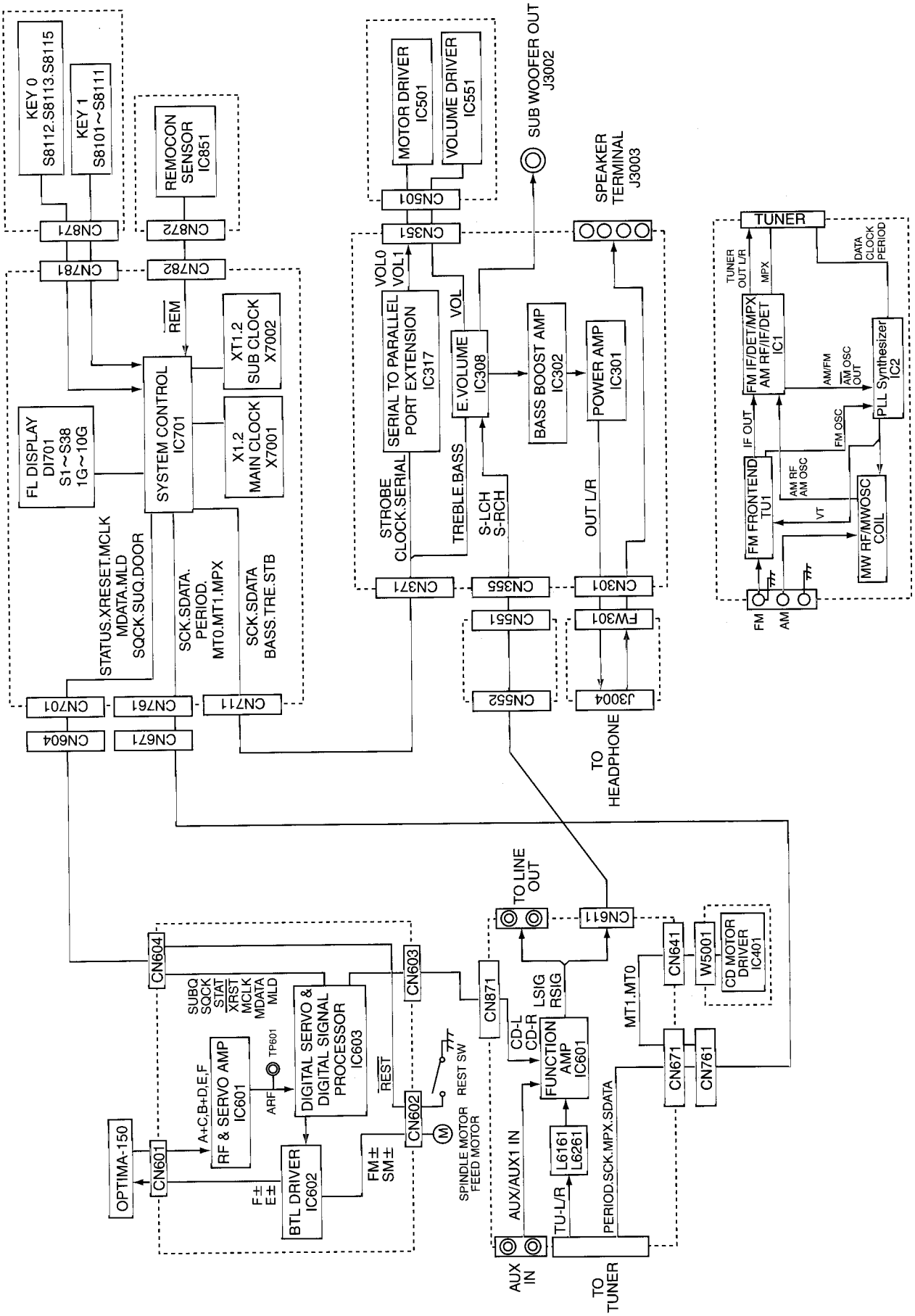
(3) When the CD trouble has occurred after starting CD, an error code will be displayed on the display section of LCD, etc.

3. Error code and location in trouble



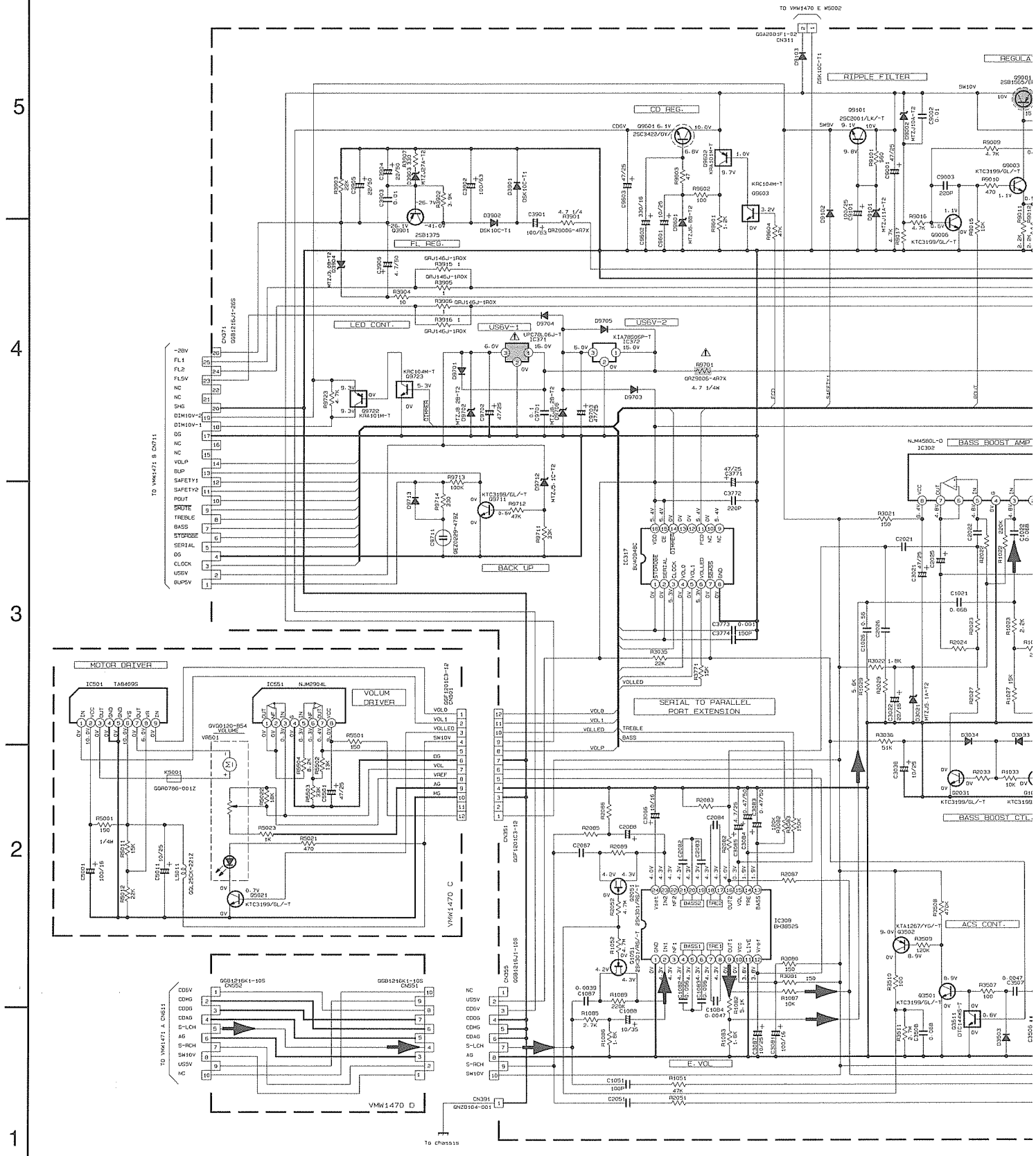

Error identified time
Flow charts
Defective points
Err 1,2
Is the pickup fed ?
N
Feed motor Motor connection NG Gear NG
Y
Is the pickup fed only toward the inner or outer peripheral?
Y
Reset switch NG
N
End
Err 4 or 7
Is the Spindle running?
N
Spindle motor Motor connection NG
Y
Is it possible to read TOC ?
N
Tracking servo Tracking actuator NG Pickup NG
End
Err 3
Unload the disk and operate the set.
Is the laser turned
N
Laser NG
Y
Dose the objective lens move up and down?
N
Focus actuator NG
Y
Check the pickup
End

Block Diagrams



Schematic Diagrams

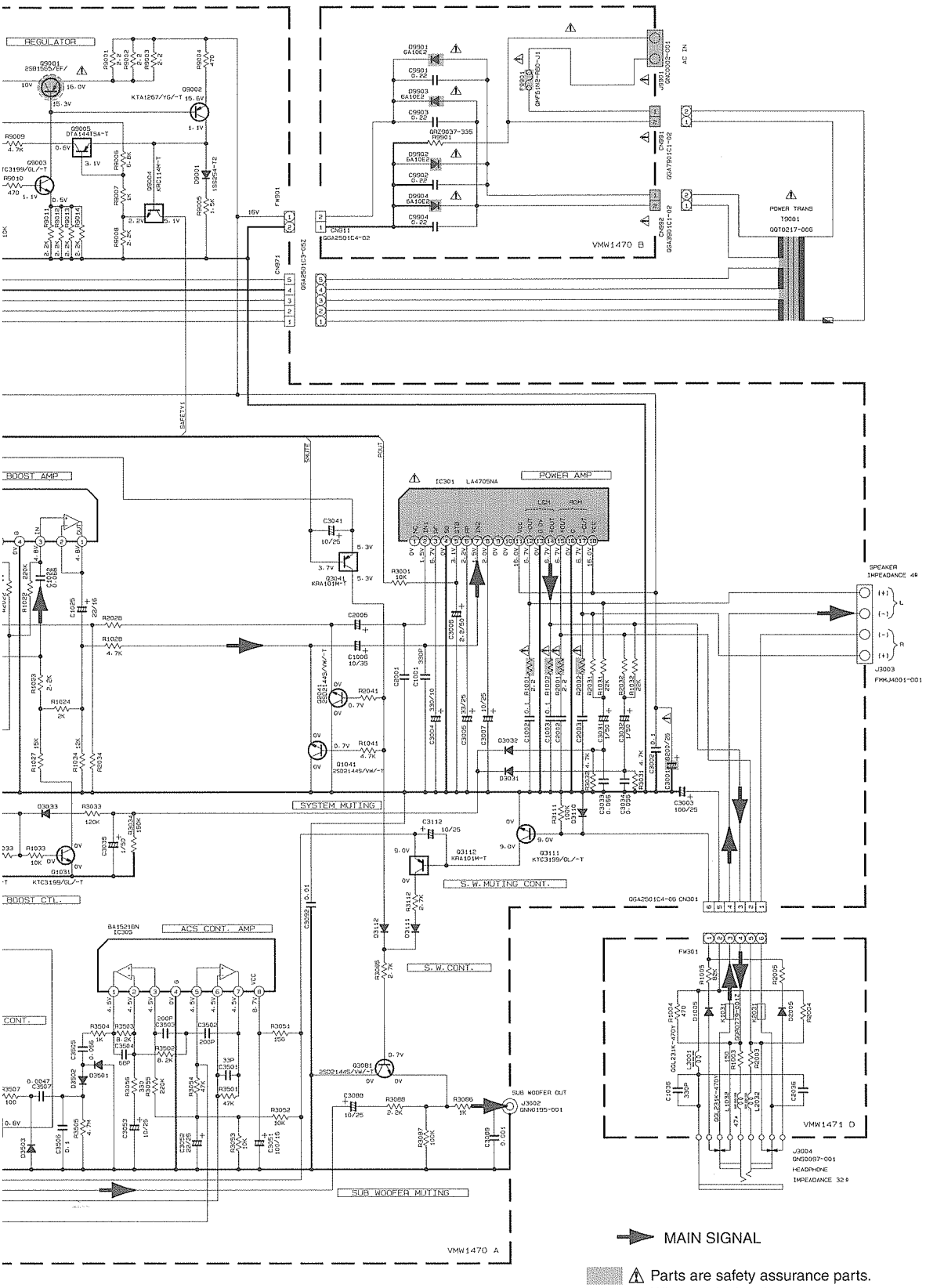
Main AMP. Section (FS-5000)



NOTES

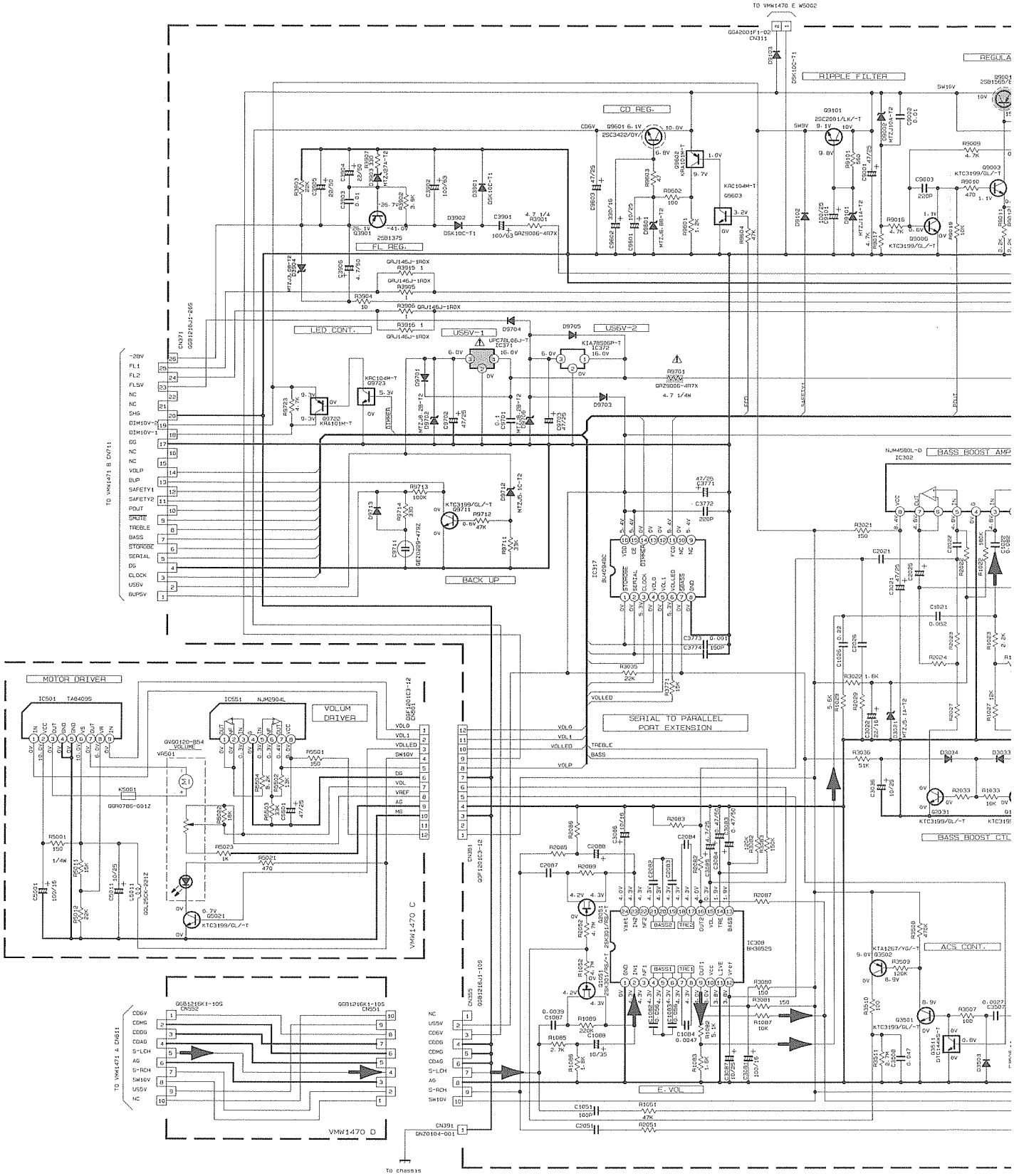
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION ---- FUNC. CD STOP MODE

2. UNLESS OTHERWISE SPEC:
ALL RESISTANCE VALUE
ALL CAPACITORS ARE
ALL CAPACITANCE VALU
ALL INDUCTANCE VALUE
ALL E.CAPACITORS ARE
ALL DIODES ARE HSS1



ERWISE SPECIFIED · RESISTORS ARE 1/4W ±5% CARBON RESISTOR.
STANCE VALUES ARE IN OHM(Ω).
CITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
CITANCE VALUES ARE IN μF(P=pF).
CTANCE VALUES ARE IN μH(m=mH).
PACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
ES ARE HSS104TJ OR 1SS254T-77

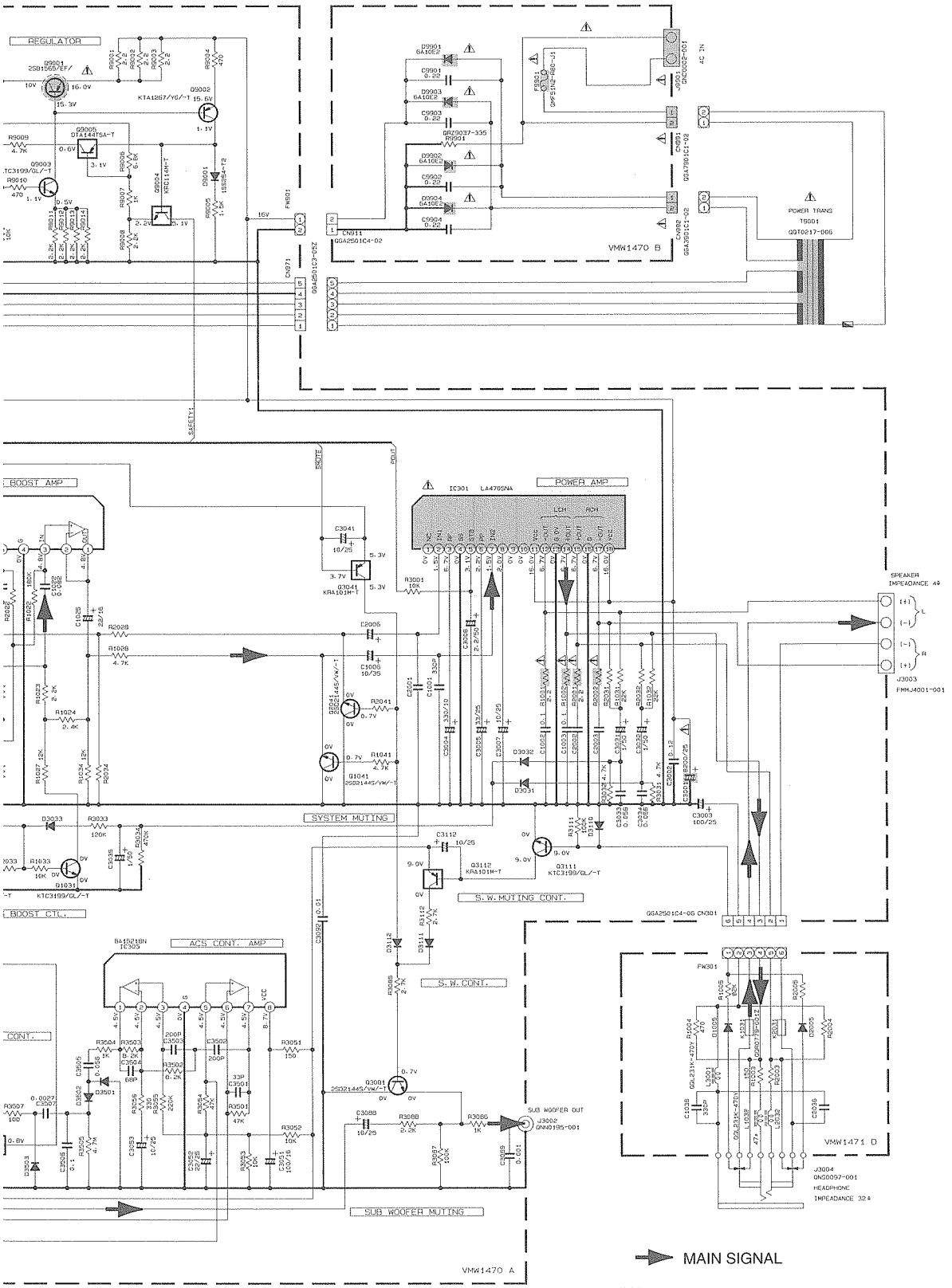
■ Main AMP. Section (FS-6000)



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION ---- FUNC. CD STOP MODE

2. UNLESS OTHERWISE SPEC
ALL RESISTANCE VALU
ALL CAPACITORS ARE
ALL CAPACITANCE VALU
ALL INDUCTANCE VALU
ALL E.CAPACITORS AR
ALL DIODES ARE HSS1



MAIN SIGNAL

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

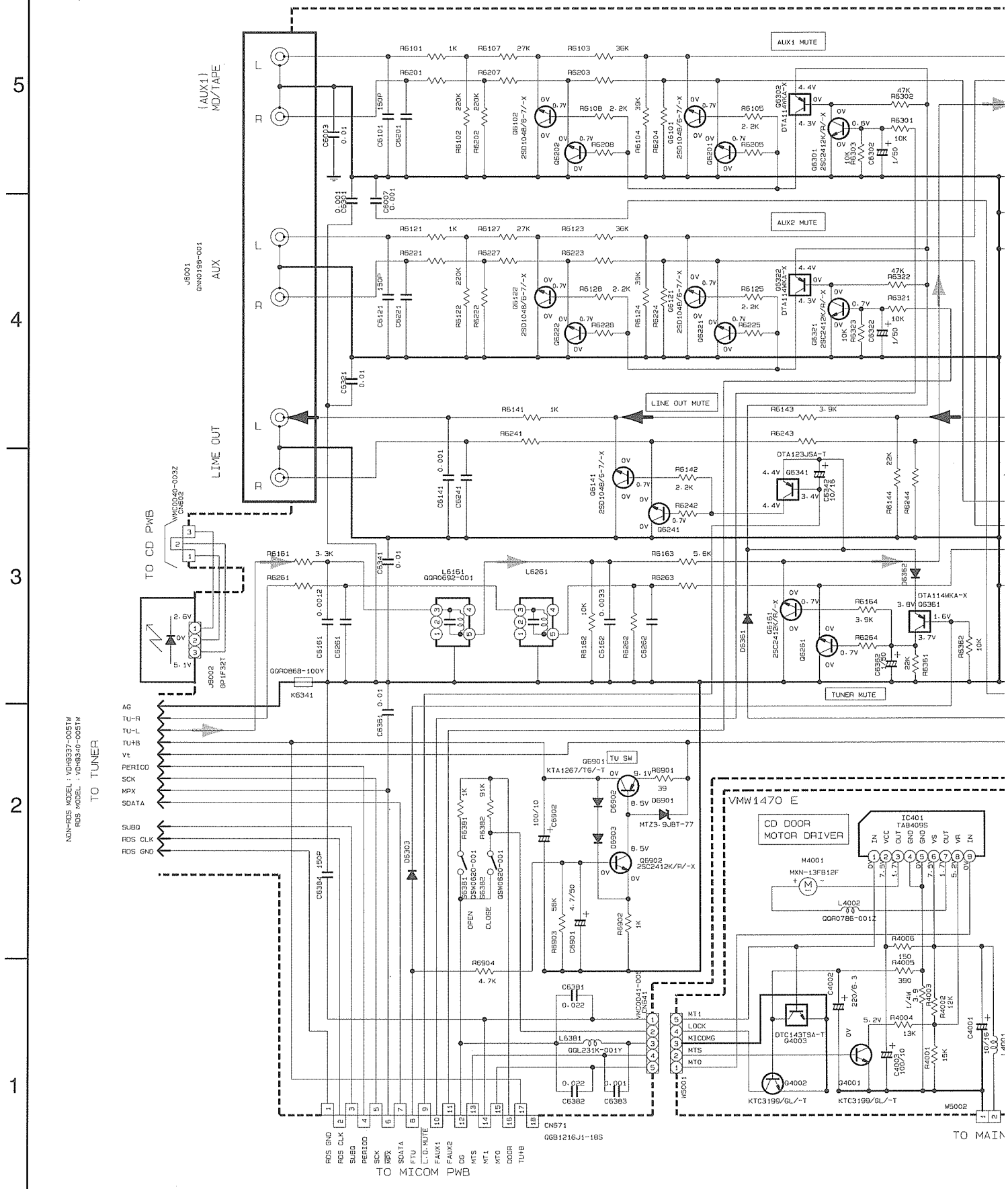
J/C

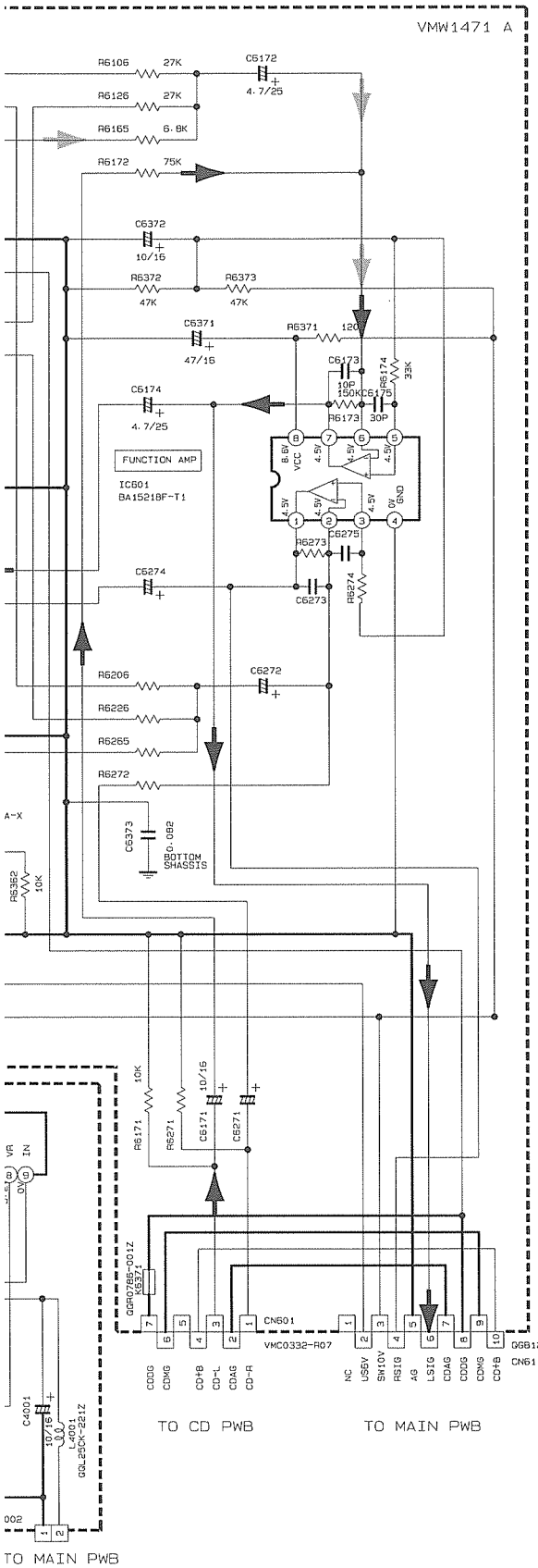
MODEL
FS-6000

ERWISE SPECIFIED. RESISTORS ARE 1/4W ±5% CARBON RESISTOR.
ISTANCE VALUES ARE IN OHM(Ω).
NDITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ACITANCE VALUES ARE IN μF(P=pF).
JCTANCE VALUES ARE IN μH(m=mH).
APACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
DES ARE HSS104TJ OR 1SS254T-77

D E F G H

FUNCTION & MOTOR DRIVER Section





NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION --- CD STOP MODE
   INSIDE BRACKET VALUES ARE OTHER FUNCTIONS
   ( ) IS INVERT MODE

2. UNLESS OTHERWISE SPECIFIED.
   RESISTORS ARE 1/6 ±5% CARBON RESISTOR OR 1/10W ±5% MG RESISTOR
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS254T-77 OR HSS104TJ
   NI MEANS NO INSERT

(FR) FUSEBLE RESISTOR

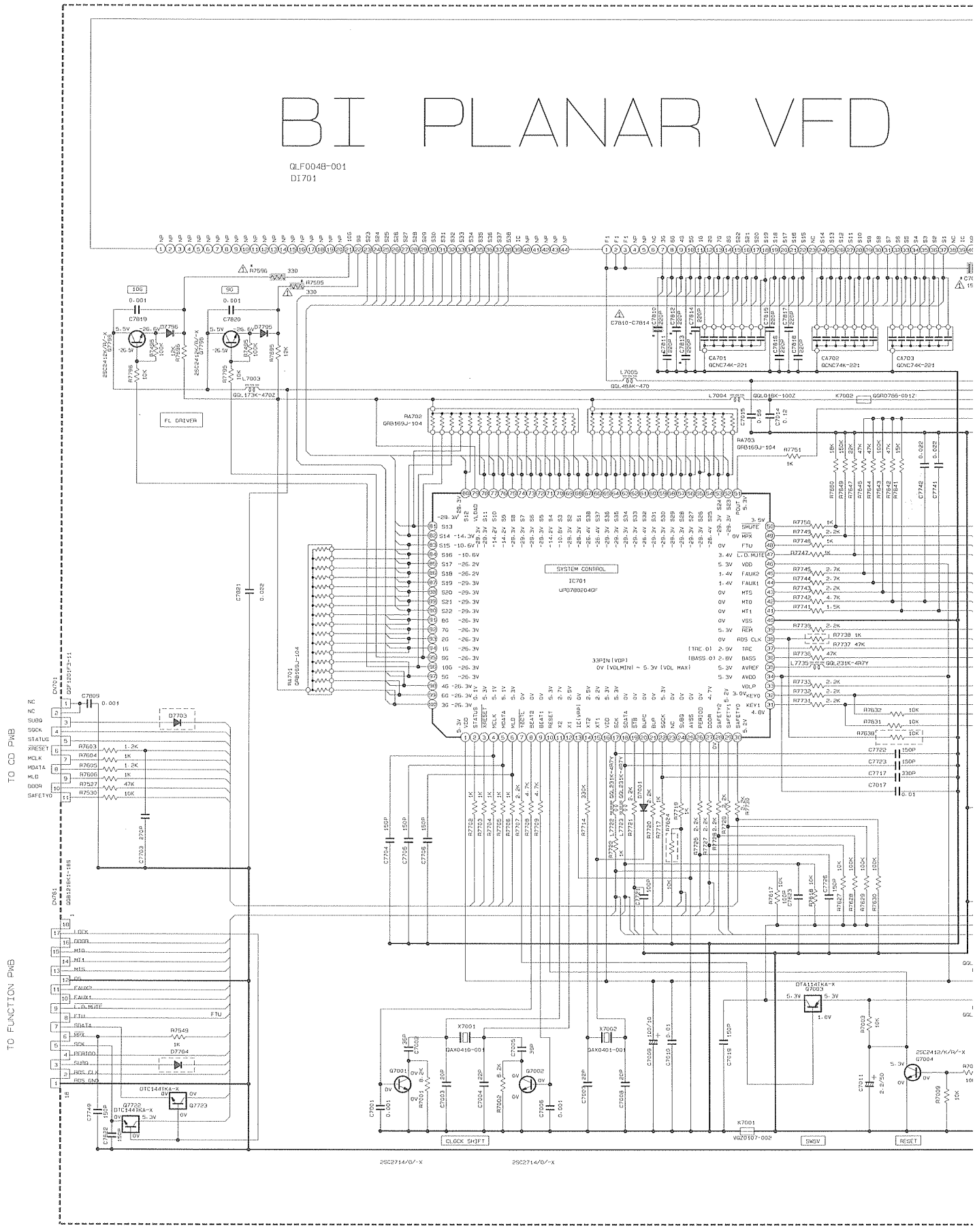
DIGTAL TRANSISTOR

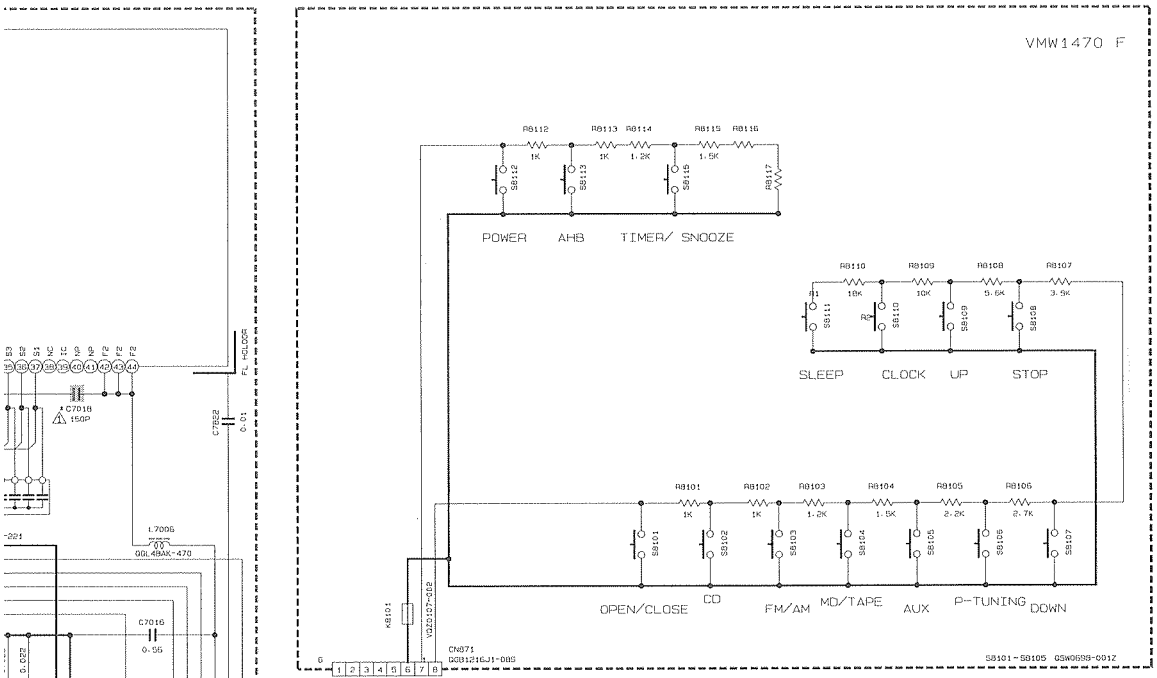
DTA114WKA-X	DTC123JSA-T	DTA123JSA-T
10K 4.7K	4.7K OPEN	2.2K 47K
Q6361	Q4003	Q6341

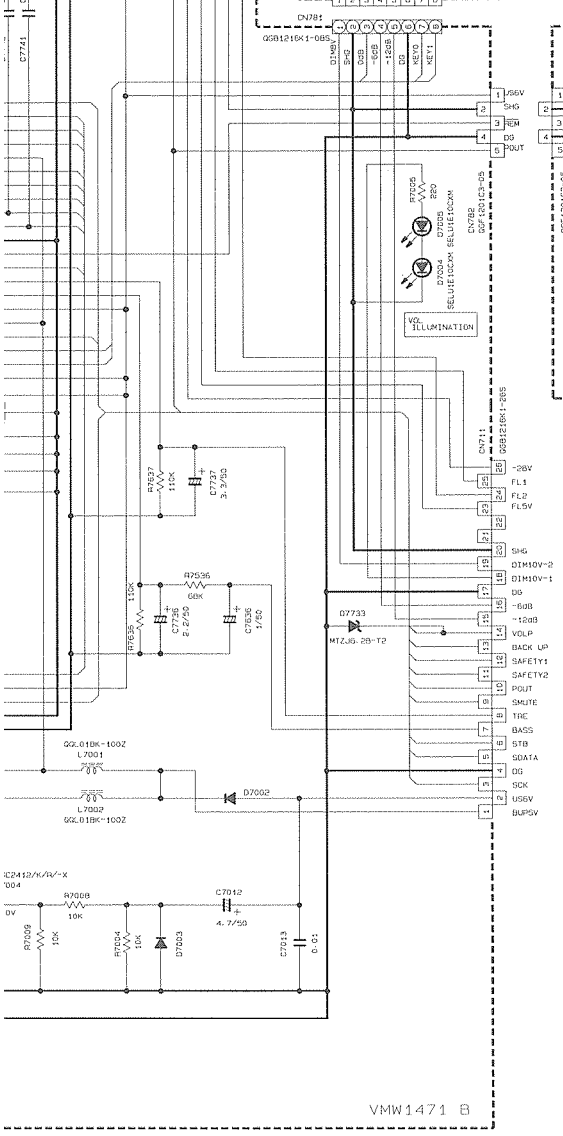
	E/B/EN/EE	D/J/A U/UT/US/UB/UF/UX
C6101/C6201 C6121/C6221 C6141/C6241 C6175/C6275	USE	NO USE

CD/MAIN SIGNAL
TUNER SIGNAL

System Controller &FL Display Section







VERSION

VERSION	R8116	R8117
Da	1.2K	3.9K
ROS	SHORT	8.2K
EE	SHORT	15K
U-10K	SHORT	24K
U-5K	SHORT	42K
J/C	15K	82K
E/EN/B/G	OPEN	OPEN

⚠* MARK LIST

	J	OTHER VERSION
C7810 C7811 C7812 C7813 C7814 C7018	NO USE	USE
R7595 R7596	470Ω	330Ω

DIGITAL TRANSISTORS

DTC114EKA-X	DTA114TKA-X	DTC144TKA-X
10K	OPEN	OPEN
Q8502	Q7003	Q7722 Q7723

MARK LIST

	ROS MODEL	NOT ROS MODEL
D7703	1SS254	BUS WIRE
D7704	USE	NO USE
R7738	USE	NO USE
R7638	NO USE	USE
R7624	USE	NO USE

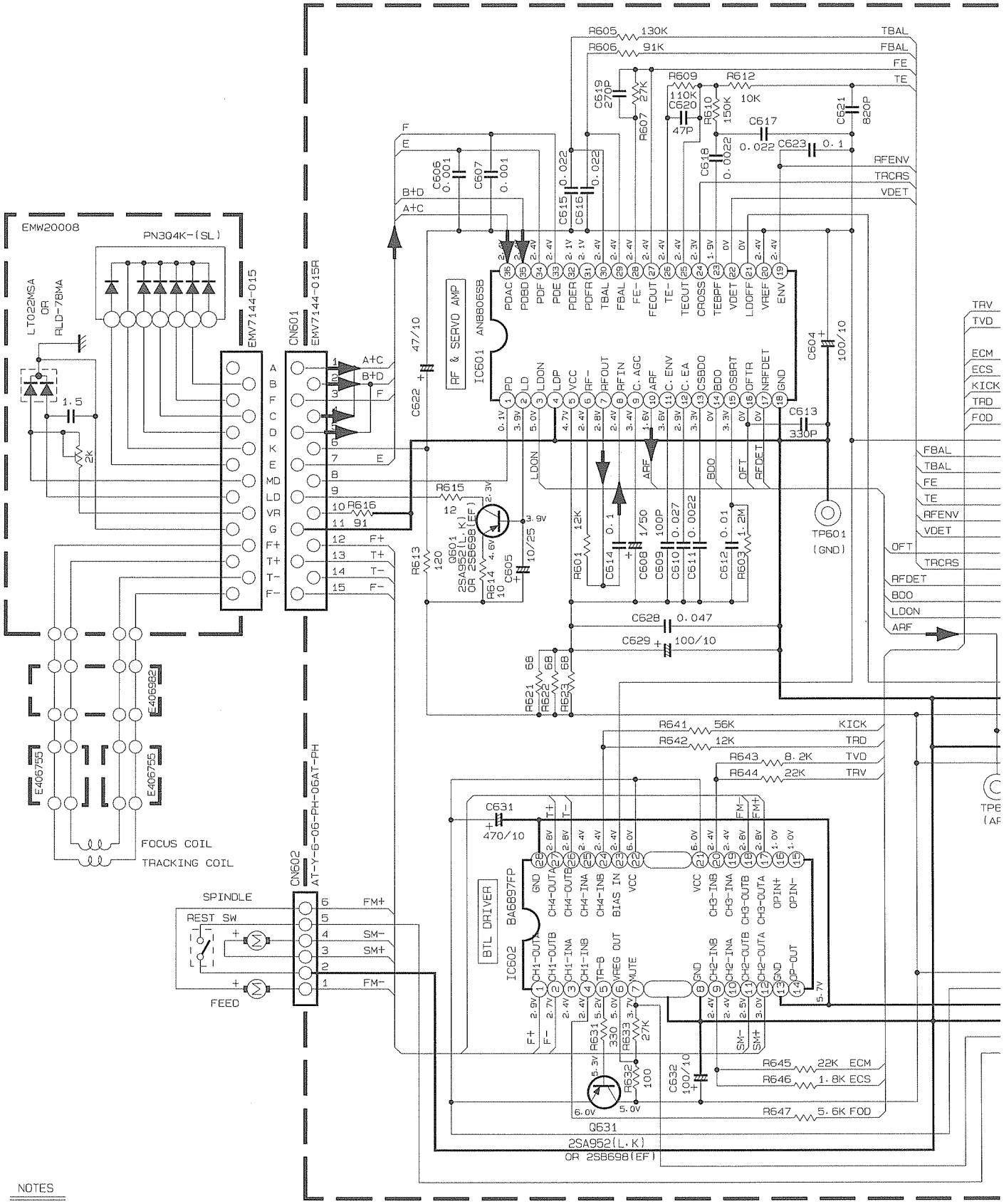
NOTE
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION ~~~ CD STOP MODE
2. UNLESS OTHERWISE SPECIFIED
RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL INDUCTANCE VALUES ARE IN μH(m=mH).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
ALL DIODES ARE 1SS254

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

UX-5000 FS-5000
UX-5500R FS-6000

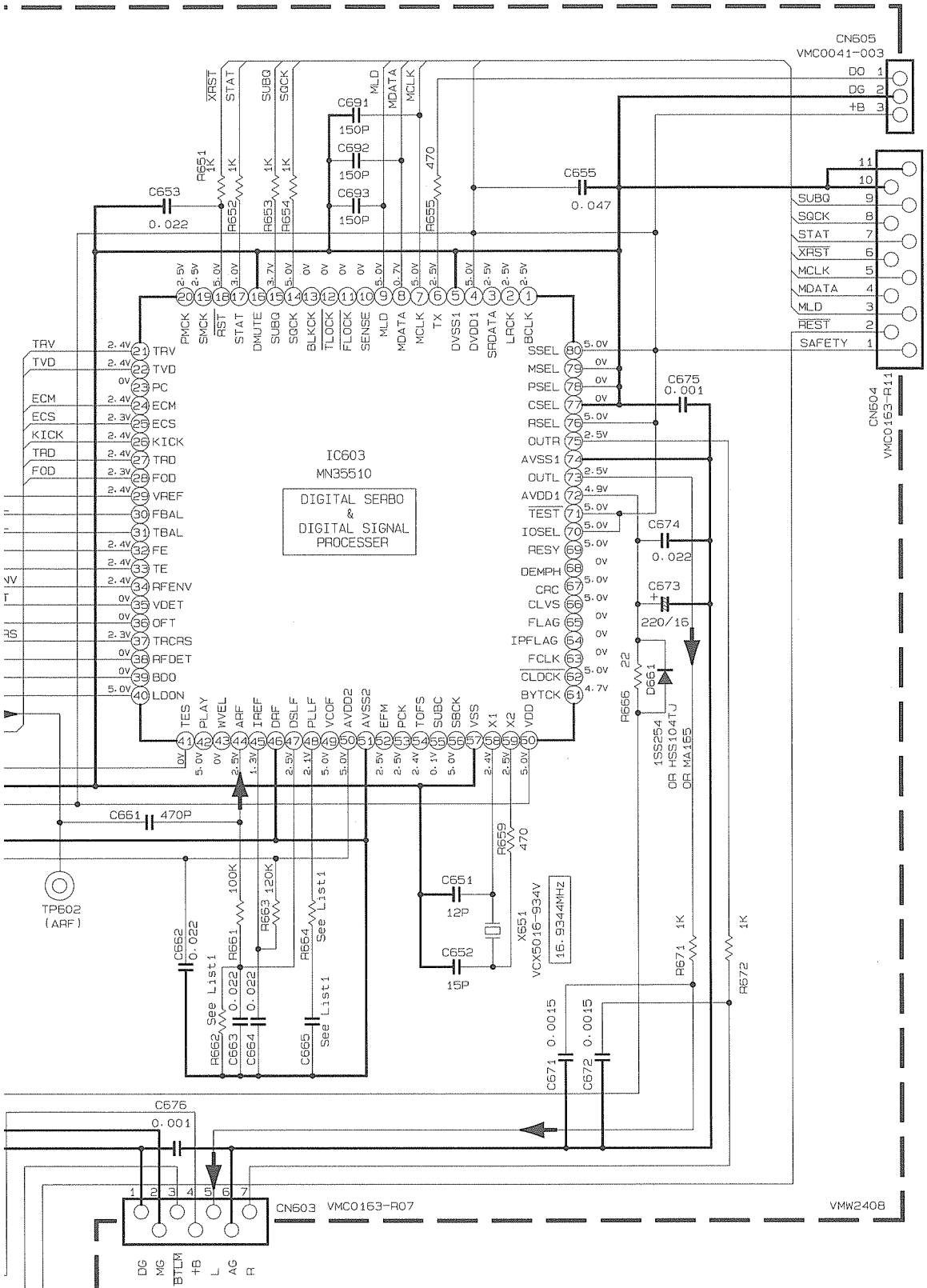
D E F G H

CD Section



NOTES

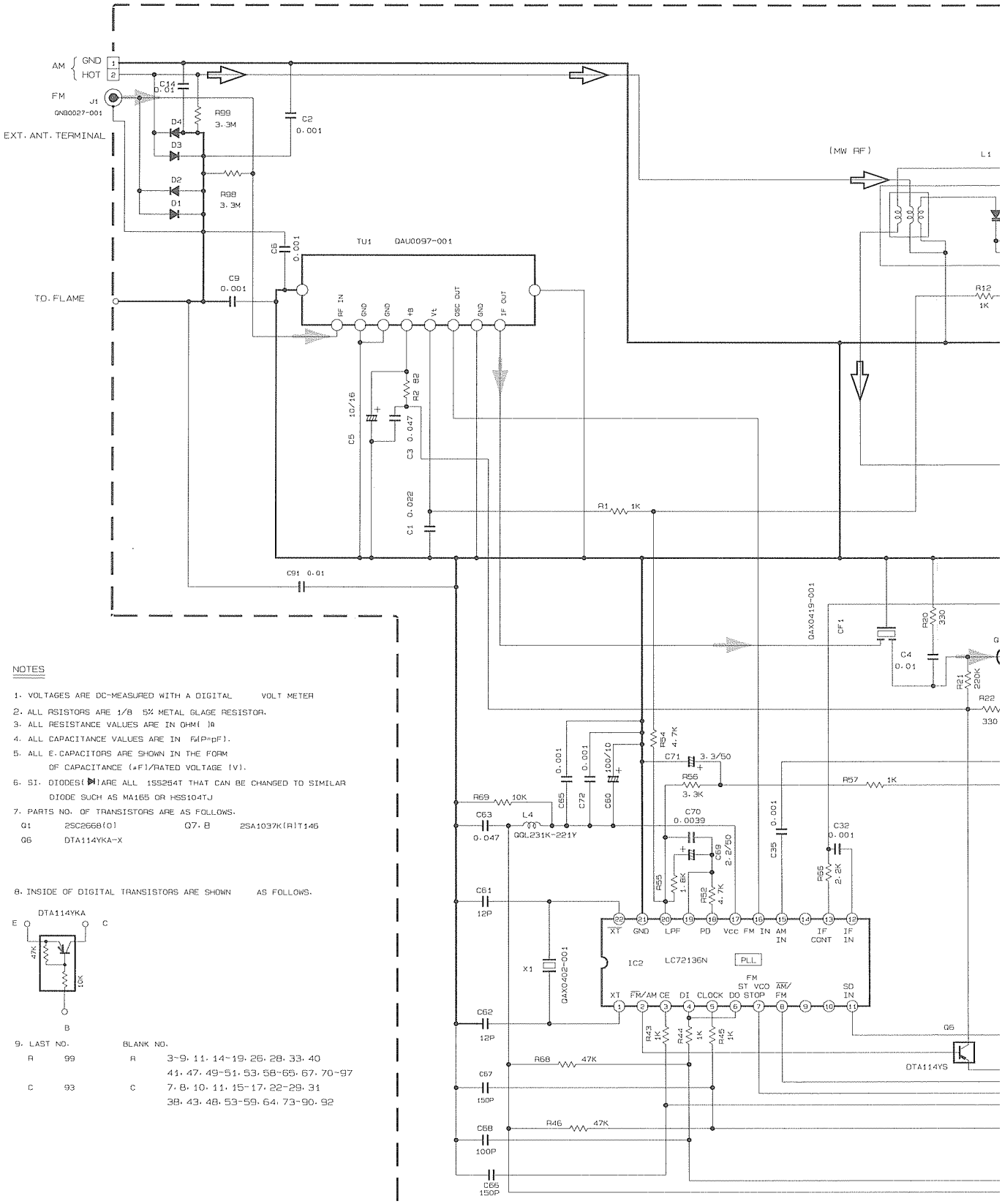
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).



List1

C665	0.33	0.1
R662	None	1.5M
R664	680	470
Using Model	FS-1, UX-1000, UX-1500R, UX-2000, UX-2000R, FS-1000, FS-2000, UX-T100, UX-T200, UX-T200R, FS-T100, UX-T150, UX-T151, UX-T250R	Others

Tuner Section



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. ALL RSISTORS ARE 1/8 5% METAL GLAGE RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM( )Ω
4. ALL CAPACITANCE VALUES ARE IN F&P=pF).
5. ALL E.CAPACITORS ARE SHOWN IN THE FORM
   OF CAPACITANCE (μF)/RATED VOLTAGE (V).
6. SI. DIODES( ) ARE ALL 1SS254T THAT CAN BE CHANGED TO SIMILAR
   DIODE SUCH AS MA165 OR HSS104TJ
7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
   Q1 2SC2668(O) Q7.8 2SA1037K(R)T146
   Q6 DTA114YKA-X

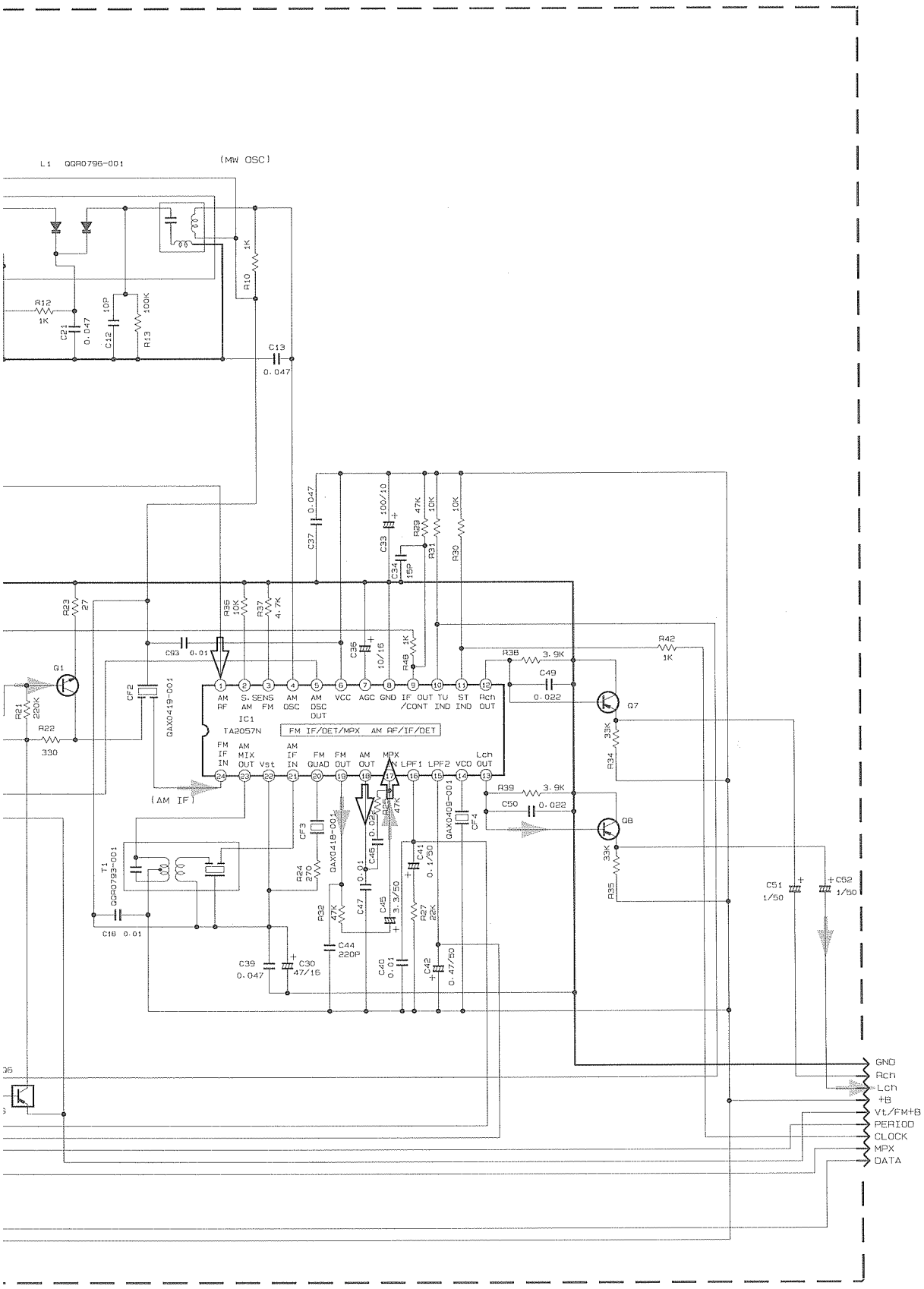
8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.

9. LAST NO. BLANK NO.

R	99	R	3~9. 11. 14~19. 25. 28. 33. 40 41. 47. 49~51. 53. 58~65. 67. 70~97
C	93	C	7. 8. 10. 11. 15~17. 22~29. 31 38. 43. 48. 53~59. 64. 73~90. 92

	CONDITION PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	5.1	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.4	3.7	3.7	1.4	0	1.3	1.1	2.0	2.0	5.1	2.0
	FM 60dB STEREO	2.0	0.5	0	2.0	5.1	5.1	1.1	0	0.3	0	0	1.1	1.1	4.3	4.1	3.7	1.4	0	1.4	1.1	2.0	2.0	5.1	2.0
	AM NO SIGNAL	2.0	0.5	0	2.0	5.1	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.5	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.1	2.0
IC2	FM NO SIGNAL	2.4	0	0	1.1	5.0	1.1	3.7	3.7	0	0	5.1	0	0	0	0	2.6	5.1	1.0	1.0	3.7	0	2.7		

Tr No.	Q1		
PIN NAME	E	C	B
FM 87.5MHz	0	7.5	0.7
AM 520KHz	0	0	0



Q1			Q5			Q7			Q8		
E	C	B	E	C	B	E	C	B	E	C	B
0	7.5	0.7	8.8	8.8	0	1.6	0	1.1	1.6	0	1.1
0	0	0	8.8	0	8.7	1.6	0	1.1	1.6	0	1.1

J

FS-5000
FS-6000
FS-7000

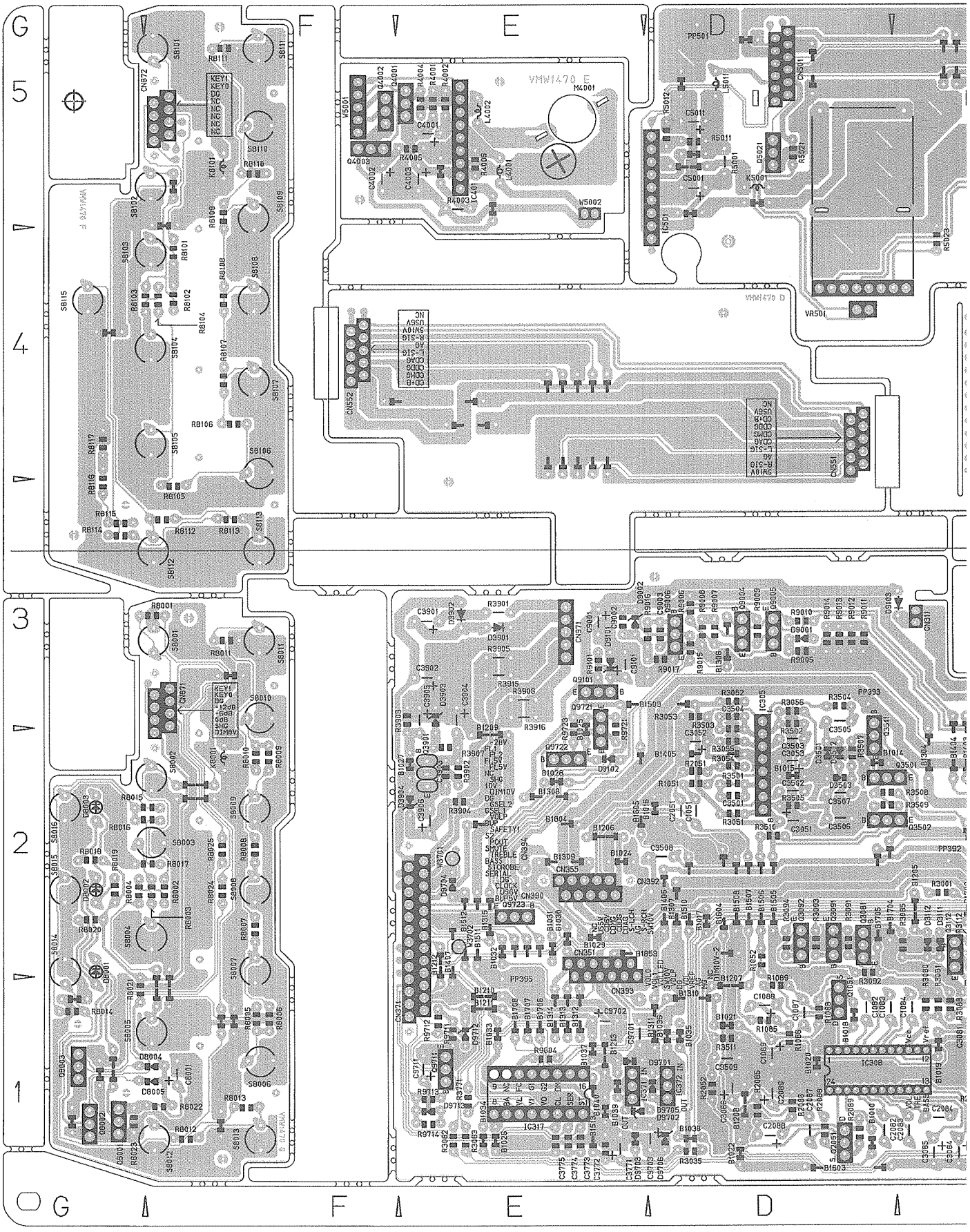
FM/TUNER MAIN SIGNAL

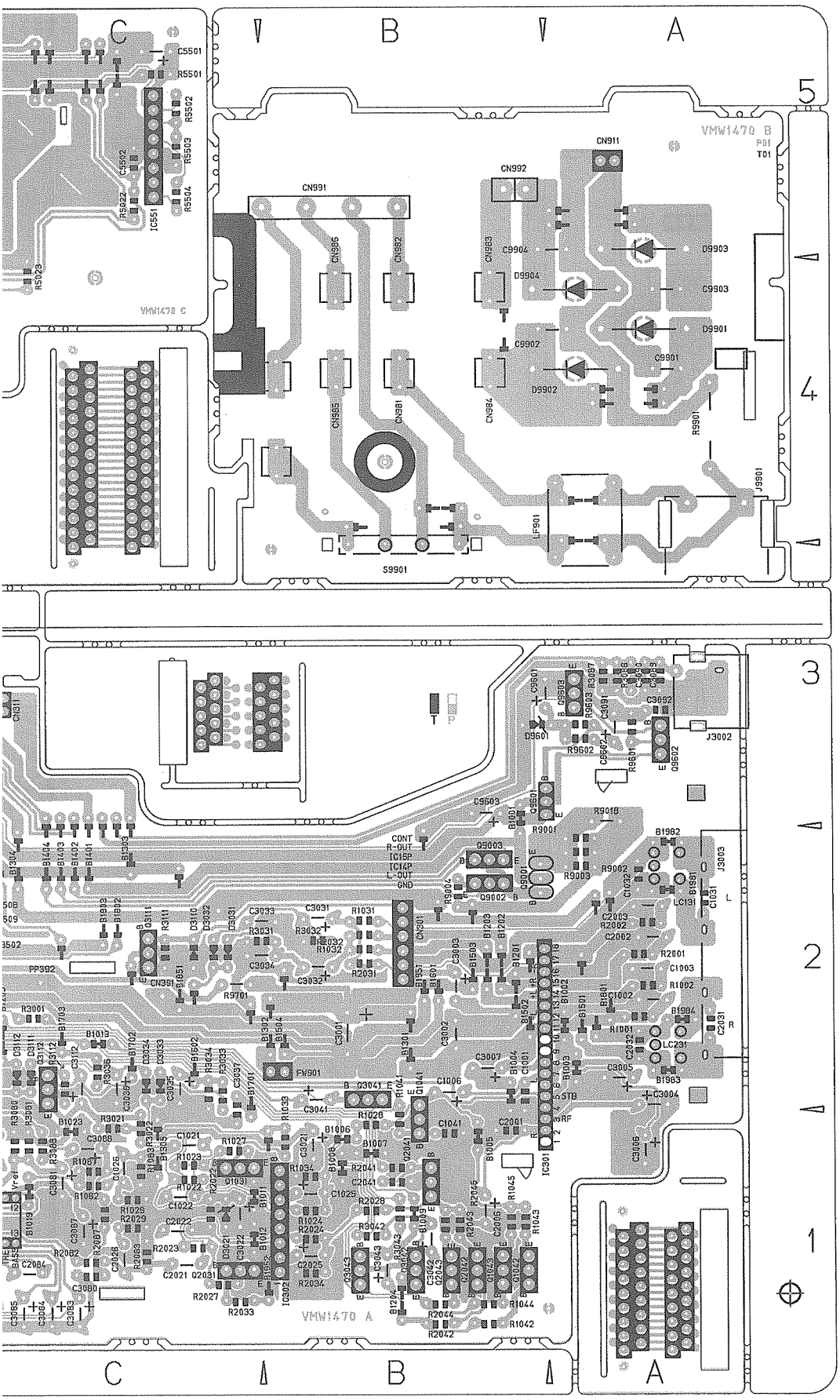
AM RADIO SIGNAL

D E F G H

Printed Circuit Boards

■ Main Board:Block No.[0] [1]




VMW1470 B
VMW1470 A
CN911
CN992
CN991
CN985
CN982
CN983
CN984
CN981
CN965
D9903
D9904
D9902
D9901
C9904
C9903
C9902
C9901
R9901
J9901
LF901
S9901
C5501
R5501
R5502
R5503
R5504
C5502
R5022
IC551
R5023
J3002
C9501
D9501
R9602
Q9602
C9503
R9001
R9003
Q9003
Q9002
R9004
C9001
R9002
B1982
J3003
C1032
LC131
C1031
C2003
R2002
C2002
R2001
C1003
R1002
C1002
B1984
LC231
C2031
C2032
C3005
B1983
C3004
C3006
R1001
B1981
B1601
B1602
B1603
B1604
B1605
B1606
B1607
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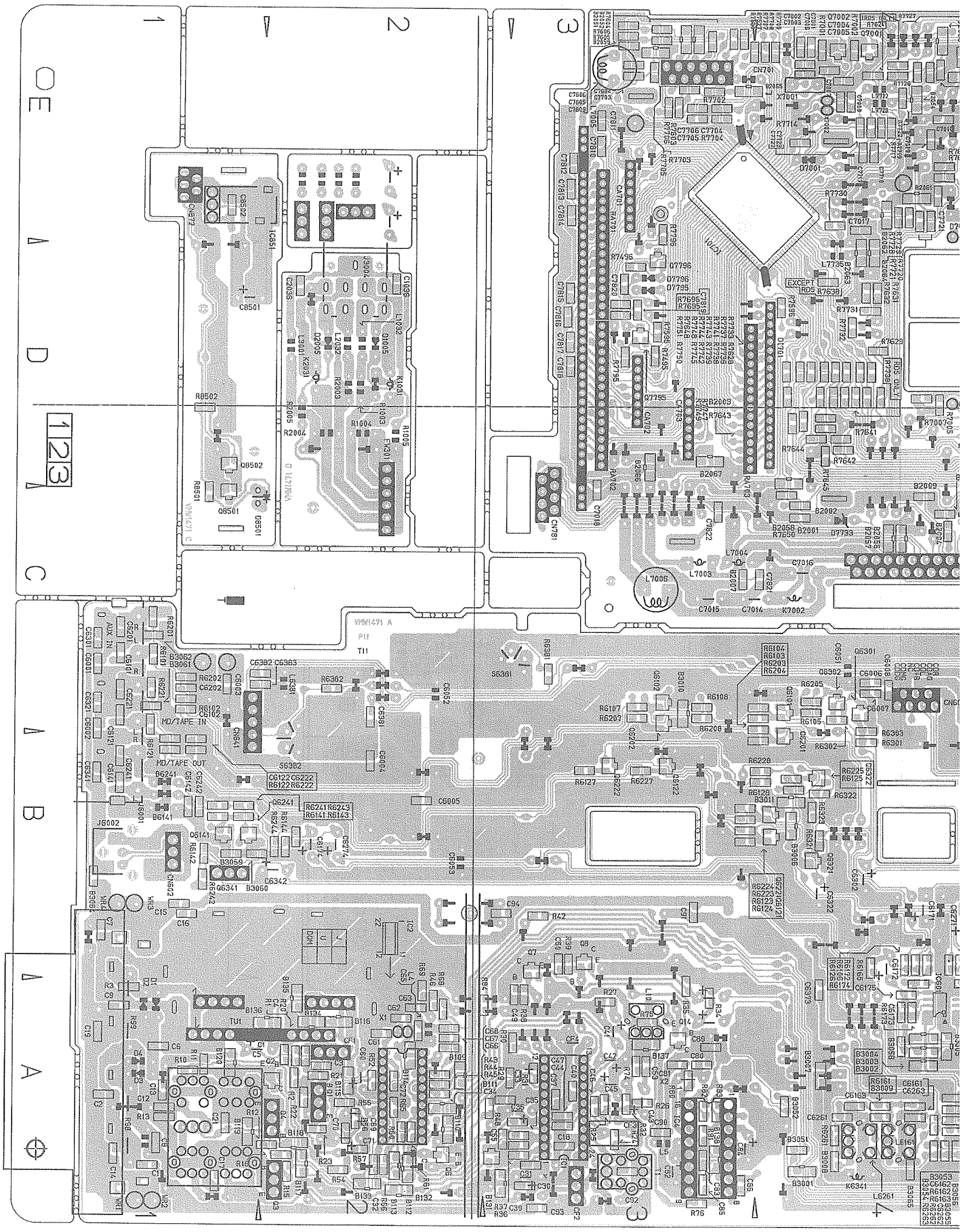
B1638
B1639
B1640

System Control,Function & Tuner Board:Block No. 0 2



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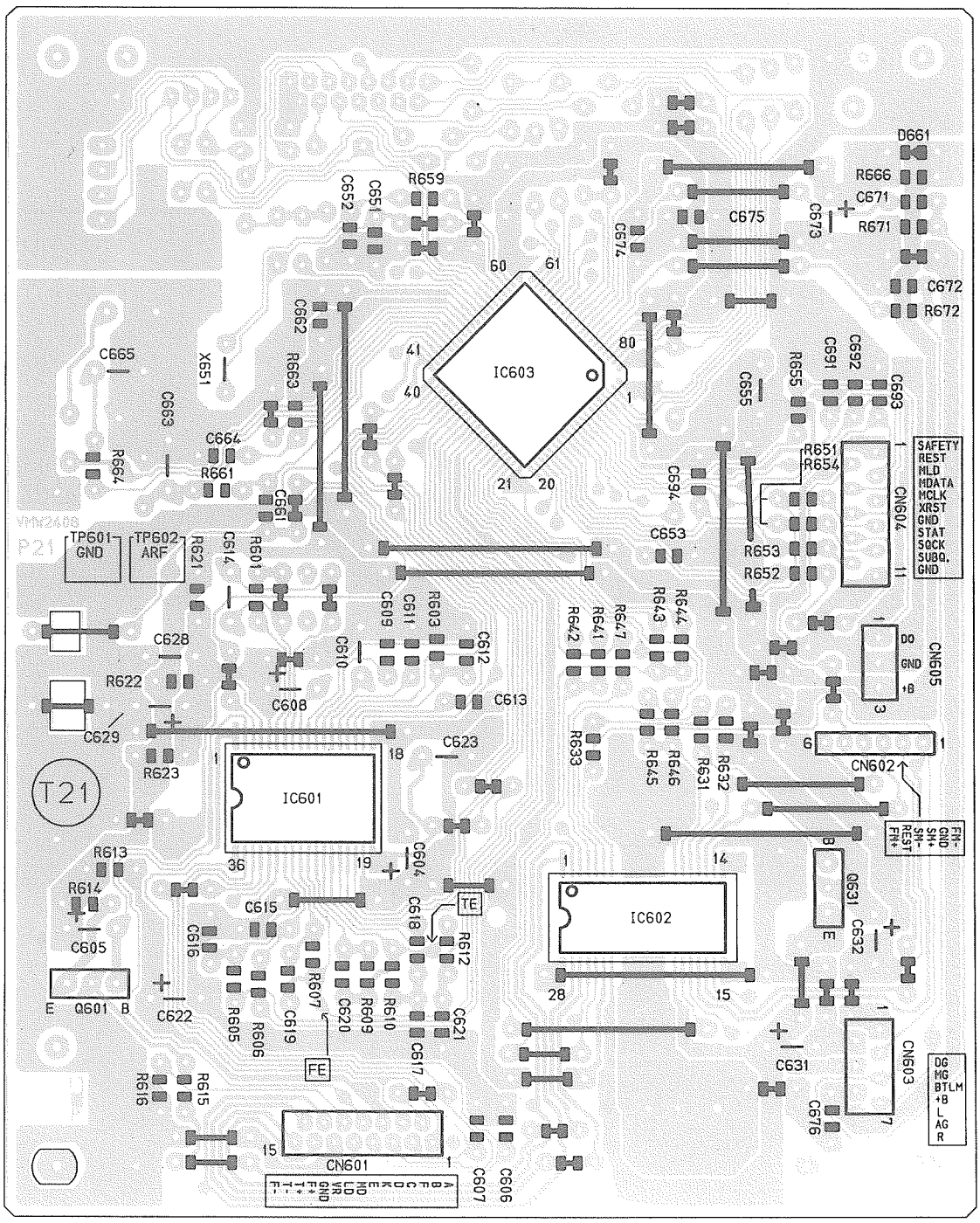
B2006
R7647
R7003
Q7003
Q7004
Q7005
L7002
L7001
D7002
D7004
D7005
R7005
B2005
B2009
CN712
R7637
C7737
CN711
C7796
R7636
R7536
C7636
CN501
CN511
CN671
LOCK
DOOR
MT0
MT1
MT5
DO
FAUX2
FAUX1
L.O.MUTE
FTU
SDATA
MPX
SCK
PERLOD
SUBO
RDS
RDS
CLK
GND
E
D
C
B
A

D E F G H

■ CD Servo Control Board:Block No.[0] [3]



-MEMO-

PARTS LIST

[FS-5000/FS-6000]

* All printed circuit boards and its assemblies are not available as service parts.

Area Suffix	
J ----------	The U.S.A & Canada

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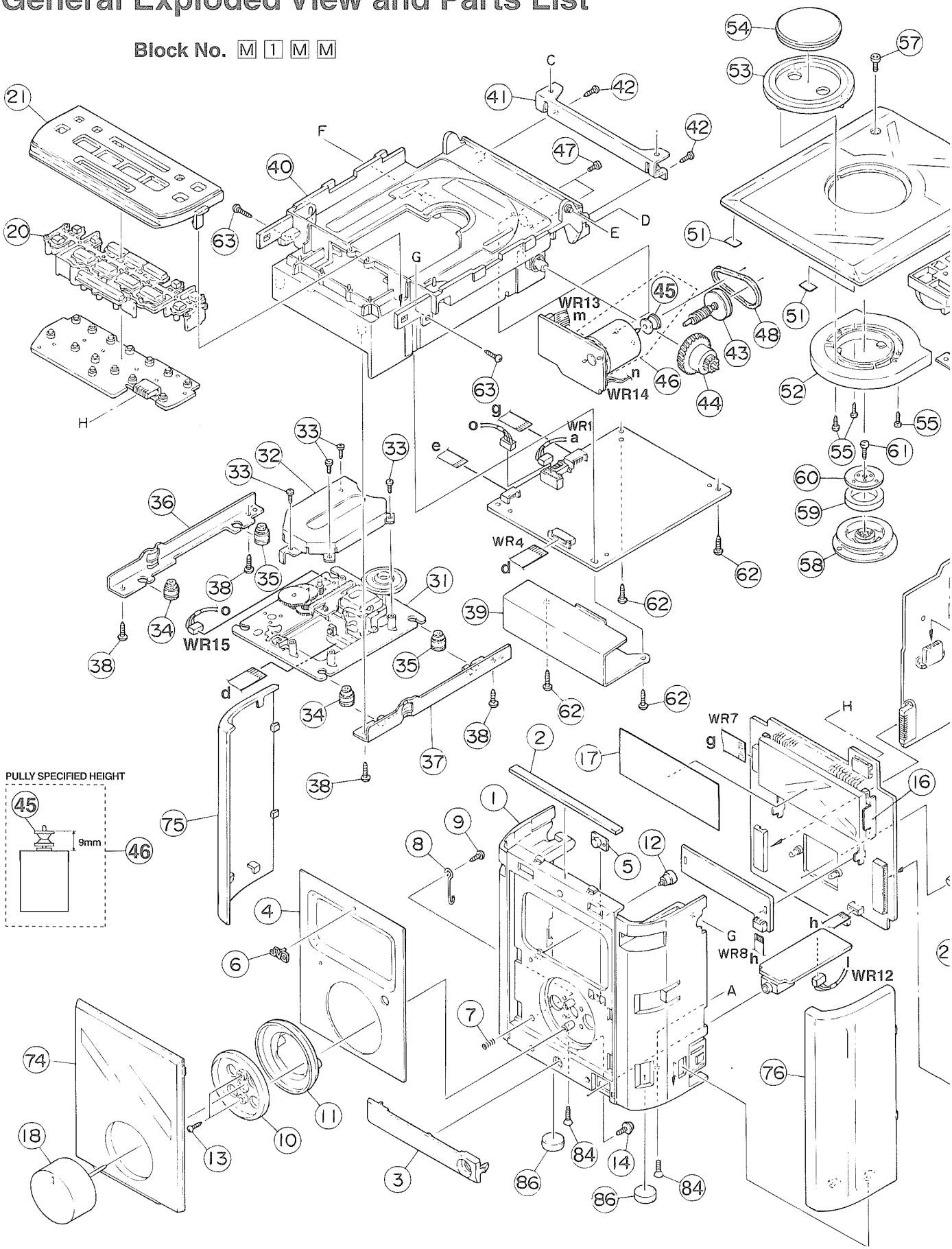
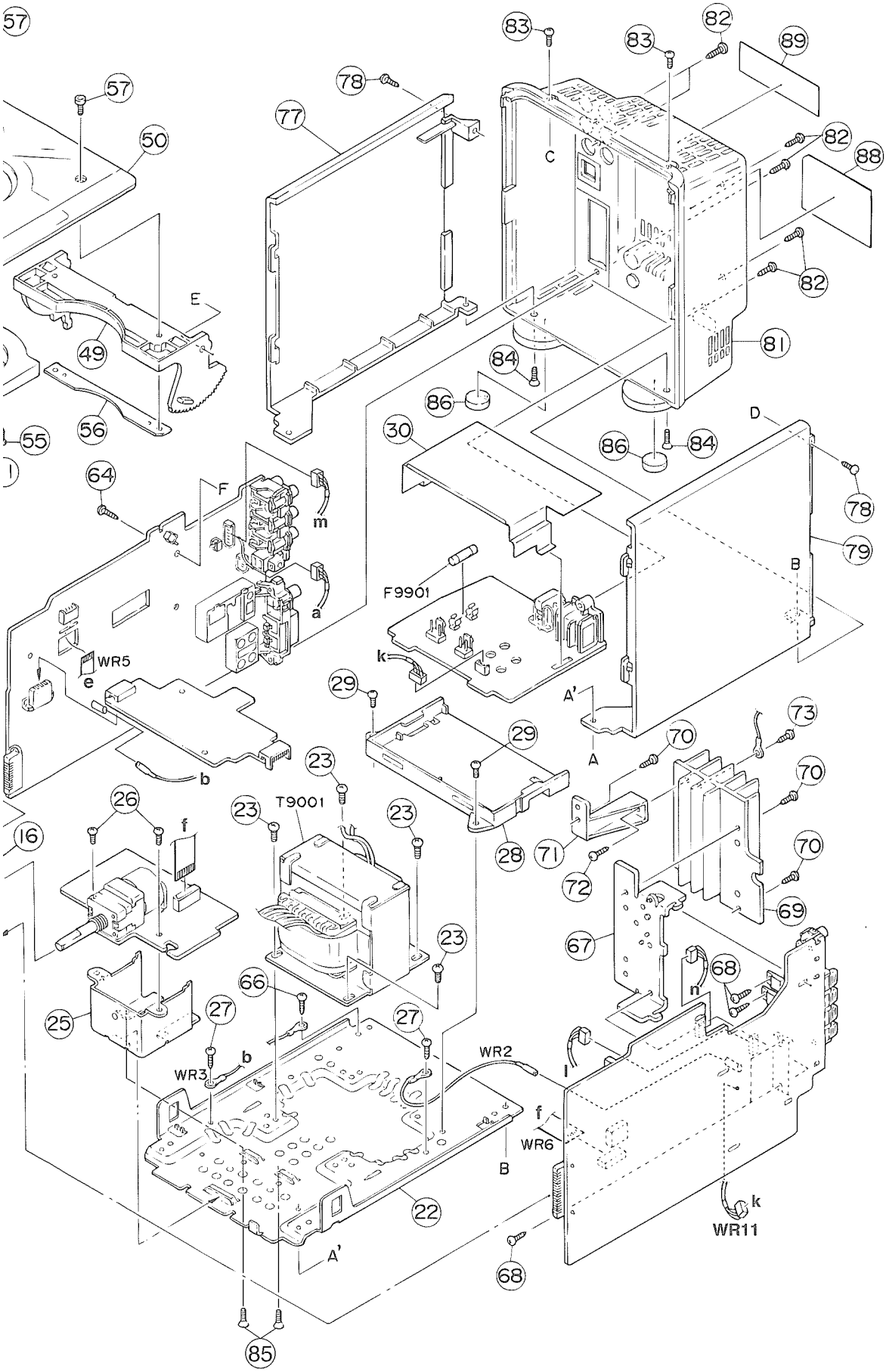
Packing Materials and Accessories List ---------- 3-16

-MEMO-

General Exploded View and Parts List

Block No. M 1 M M




57
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F9901
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WR5
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T9001
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WR3
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WR6
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WR11
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Parts List

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	LV10015-002A	FRONT PANEL		1		
	2	LV40105-001A	TOP PLATE		1		
	3	LV40106-003A	UNDER PLATE	FS-5000 ONLY	1		
		LV40106-004A	UNDER PLATE	FS-6000 ONLY	1		
	4	LV40110-001A	AL PLATE		1		
	5	E408131-001	REMOTE LENS		1		
	6	E406971-221	JVC MARK		1		
	7	VKW3001-321	COMP. SPRING	GRAND YOU	1		
	8	LV40218-001A	EARTH WIRE		1		
	9	SBSF3010Z	SCREW	FRONT+EARTH WIR	1		
	10	LV40107-002A	VOL.ESCUTCHEON		1		
	11	LV40108-001A	VOL.LENS		1		
	12	LV40161-001A	LENS	STANBY LENS	1		
	13	SBSF2606Z	SCREW	V.E+V.L+FRONT.P	2		
	14	GBSF3006Z	T.SCREW	FRONT+UNDER PLA	1		
	16	LV30138-002A	FL HOLDER		1		
	17	LV40220-004A	FL SHEET		1		
	18	LV40162-002ASA	VOL.KNOB ASS'Y		1		
	20	LV30083-001A	BUTTON		1		
	21	LV30084-003A	BUTTON COVER		1		
	22	LV10036-001A	BOTTOM CHASSIS		1		
	23	SBST4006Z	SCREW		4		
	25	LV30137-001A	PWB HOLDER	FOR VOL.PWB	1		
	26	SBST3006Z	TH TAP SCREW	PWB.H+VOL.PWB	2		
	27	SBST3004Z	SCREW	EARTH W+BOTTOM	2		
	28	LV30139-001A	PWB COVER		1		
	29	SBST3006Z	TH TAP SCREW	PWB COVER+BOTTO	2		
	30	LV30514-001A	BARRIER		1		
	31	----------	C.D MECHA ASS'Y		1		
	32	VJD5410-005	PICK COVER		1		
	33	SDSF2006M	SCREW		4		
	34	E75609-001	INSULATOR		2		
	35	E75609-002	INSULATOR		2		
	36	VYH8089-001SC	CD MECHA HOLDER		1		
	37	VYH8089-002SC	CD MECHA HOLDER		1		
	38	SBSF3008Z	SCREW		4		
	39	VMA4692-002SC	SHIELD		1		
	40	VJD1210-009UL	CD CASE		1		
	41	LV40164-001A	REAR BRACKET	CD.CASE+REAR	1		
	42	SBSF3008Z	SCREW	CD CASE+BRACKET	2		
	43	VYH8090-001SC	GEAR 1		1		
	44	VYH8091-002SC	GEAR 2		1		
	45	VYH7699-001	PULLEY		1		
	46	MXN13FB12F-SA8	DC MOTOR ASS'Y		1		
	47	SPSP3004Z	SCREW		2		
	48	VKB3000-170	BELT		1		
	49	VJE3014-001SC	CD DOOR		1		
	50	LV30085-003A	CD DOOR LENS		1		
	51	VYSS1R1-108	SPACER	FOR CD DOOR LEN	2		
	52	LV30080-003A	DOOR PLATE	FS-5000 ONLY	1		
		LV30080-004A	DOOR PLATE	FS-6000 ONLY	1		
	53	LV30086-001A	ORNAMENT		1		
	54	LV40104-001A	LENS (CD)		1		
	55	SDSF2006M	SCREW	ORNAMENT+D.PLAT	3		
	56	VJD5490-002	PLATE		1		

BLOCK NO. M1MM

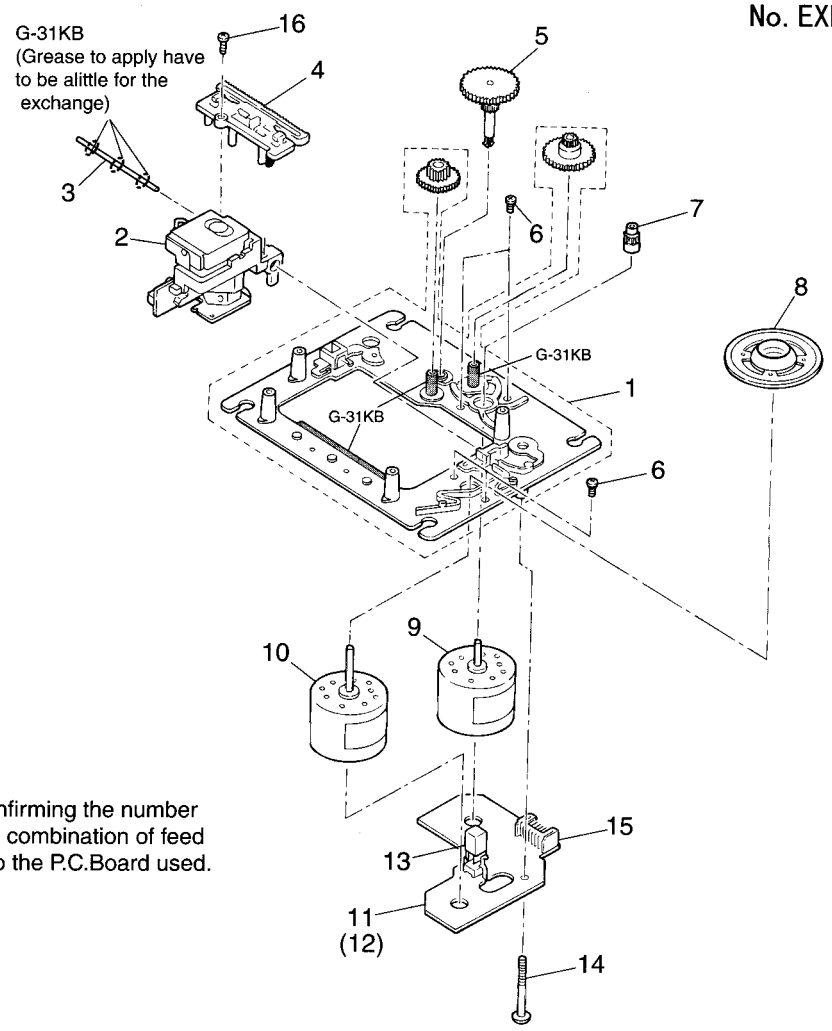
⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	57	VKZ4765-001	S.BOLT(DIN)		2		
	58	VYH3726-002SS	CLAMPER		1		
	59	VYH7313-003	MAGNET		1		
	60	VYH7677-201	YOKE		1		
	61	SDSF2606Z	SCREW		1		
	62	SBSF3008Z	SCREW	CD CASE + CD PW	4		
	63	SBSF3008Z	SCREW	CD CASE+FRONT.P	2		
	64	SBSF3008Z	SCREW	CD CASE+PWB(L)	1		
	66	SBST3004Z	SCREW	FUNC PWB+BOTTOM	1		
	67	LV40165-001A	IC HOLDER		1		
	68	SBSF3010Z	SCREW		4		
	69	LV30141-003A	HEAT SINK		1		
	70	SBSF3008Z	SCREW	H.SINK+IC HOL.C	3		
	71	LV40221-001A	BRACKET	CD CASE+H.SINK	1		
	72	SBST3008Z	TH TAP SCREW		1		
	73	SBST3008Z	TH TAP SCREW	H.SINK+EARTH WI	1		
	74	LV40109-002A	FRONT LENS		1		
	75	LV30087-001A	FITTING(L)		1		
	76	LV30088-001A	FITTING(R)		1		
	77	LV20044-002A	SIDE PANEL(L)		1		
	78	SBSF3008Z	SCREW	FOR CD CASE	2		
	79	LV20045-002A	SIDE PANEL(R)		1		
	81	LV10037-008A	REAR COVER		1		
	82	SBSF3010M	T.SCREW	REAR	6		
	83	SBST3006M	TH TAP SCREW	REAR+BK(TOP GAW	2		
	84	SSST3010Z	SCREW	BOTTOM	4		
	85	SBST3006Z	TH TAP SCREW	PWB HOLDER+BOTT	2		
	86	VJF4003-001	FOOT		4		
	88	LV30143-004A	NAME PLATE	FS-5000 ONLY	1		
		LV30143-005A	NAME PLATE	FS-6000 ONLY	1		
	89	VND4118-004	CAUTION LABEL		1		
⚠	F9901	QMF51N2-R80J1	FUSE	PRI 800A/250V	1		
⚠	T9001	QQT0217-006	POWER TRANS	J VER	1		
	WR 1	VDM9291-C001C-A	WIRE&TUBE	CD - FUNC	1		
	WR 2	VWE240-10NTSA	WIRE	MAIN - BOTTOM	1		
	WR 3	VWE240-08NTSA	LUG WIRE	FUNC - BOTTOM	1		
	WR 4	VWF1015-07TTA	FFC CABLE		1		
	WR 5	VWF1207-07TTB	FFC		1		
	WR 6	VWF1212-06TTB	CARD WIRE	MAIN - VOL	1		
	WR 7	VWF1211-16TTB	CARD WIRE	MICOM - CD	1		
	WR 8	VWF1205-06TTB	CARD WIRE	MICOM - REM.SEN	1		
	WR 11	SC-J-2-10-EH-02	SC-EH WIRE	MAIN - AC	1		
	WR 12	SC-J-6-28-EH-06	SC-EH WIRE	H.P - MAIN	1		
	WR 13	SC-P-0-14-EH-05	SC-EH WIRE	DOOR MOTOR - FU	1		
	WR 14	SA-P-2-14-PH-02	SA-PH WIRE	DOOR MOTOR - MA	1		
	WR 15	AT-Y-6-06-PH-06	AT-PH CONN		1		

CD Mechanism Ass'y and Parts List

■Grease Point

Block No. M 2 M M

No. EXL-M6



NOTE
Please order moutor after confirming the number of the P.C.Board because the combination of feed motor is different according to the P.C.Board used.

A B C D

■CD Mechanism Assembly Parts List

⚠	Item	Parts Number	Parts Name	Q'ty	Description	Area
	1	EPB-002PK	MECHA. BASE ASSY	1		
	2	OPTIMA-150S	OPTICAL PICK UP	1		
	3	E407782-001	CD SHAFT	1		
	4	E307746-001	CD RACK	1		
	5	EPB-003A	MECHA GEAR	1		
	6	SDSP2003N	SCREW	4		
	7	E406750-001	PINION GEAR	1		
	8	EPB309173A	TURN TABLE	1		
	9	E406784-001	FEED MOTOR	1	Use the No.11 P.C.Board	
		MDN-4RA3ETA-1	FEED MOTOR	1	Use the No.12 P.C.Board	
	10	E406783-001	SPINDLE MOTOR	1		
	11	EMW10190-001(S)	P. C. BOARD	1		
	12	EMW10190-221(S)	P. C. BOARD	1		
	13	ESB1100-005	LEAF SWITCH	1		
	14	E75832-001	SCREW	1		
	15	EMV5109-006B	CONN. TERMINAL	1		
	16	SDSF2006Z	SCREW	1		

■ Main Board

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CN301	VMC0040-006	CONNECTOR	HEADPHONE	
	CN311	VMC0075-R02	2P CONNECTOR	CD DOOR	
	CN351	QGF1201C3-12	VMC0332-012	MOTOR VOL	
	CN355	QGB1216J1-10S	CONNECTOR	CONNECT	
	CN371	QGB1216J1-26S	B TO B CONNE	MICOM	
	CN391	VMZ0015-002	POST PIN	SHARSHI EARTH	
	CN501	QGF1201C3-12	VMC0332-012		
	CN551	QGB1216K1-10S	CONNECTOR		
	CN552	QGB1216K1-10S	CONNECTOR		
	CN872	QGB1216J1-08S	CONNECTOR	TO MICON	
	CN911	VMC0040-002	CONNECTOR	MAIN PWB	
	CN971	QGA2501C3-05Z	CONNECTOR	POWER TRANS	
⚠	CN981	EMG7331-003Z	FUSE CLIP		
⚠	CN982	EMG7331-003Z	FUSE CLIP		
	CN991	VMZ0049-B02	CONNECTOR	PRI MORE	
	CN992	VMZ0049-A02	CONNECTOR	SEC	
	C1001	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C1002	QCC31EM-104ZV	C CAPACITOR	.10MF 20% 25V	
	C1003	QCC31EM-104ZV	C CAPACITOR	.10MF 20% 25V	
	C1006	QTE1V06-106Z	E.CAPACITOR		
	C1021	QFN81HJ-683	M.CAPA. I.M	FS-5000 ONLY	
	C1021	QFN31HJ-823Z	MYLAR CAPACITOR	FS-6000 ONLY	
	C1022	QFN31HJ-823Z	MYLAR CAPACITOR	FS-6000 ONLY	
	C1022	QFN81HJ-683	M.CAPA. I.M	FS-5000 ONLY	
	C1025	QTE1C06-226Z	E CAPACITOR		
	C1026	QFV81HJ-564	M.M.CAPA. I.M	FS-5000 ONLY	
	C1026	QFV41HJ-224ZM	M.M.CAPA. I.M	FS-6000 ONLY	
	C1051	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C1082	QFN31HJ-563Z	M.CAPACITOR	.056MF 5% 50V	
	C1083	QFN31HJ-563Z	M.CAPACITOR	.056MF 5% 50V	
	C1084	QFN41HJ-472	M CAPACITOR	4700PF 5% 50V	
	C1087	EFZ0101-392S	P.P.CAPACITOR	3900PF	
	C1088	QTE1V06-106Z	E.CAPACITOR		
	C2001	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C2002	QCC31EM-104ZV	C CAPACITOR	.10MF 20% 25V	
	C2003	QCC31EM-104ZV	C CAPACITOR	.10MF 20% 25V	
	C2006	QTE1V06-106Z	E.CAPACITOR		
	C2021	QFN81HJ-683	M.CAPA. I.M	FS-5000 ONLY	
	C2021	QFN31HJ-823Z	MYLAR CAPACITOR	FS-6000 ONLY	
	C2022	QFN31HJ-823Z	MYLAR CAPACITOR	FS-6000 ONLY	
	C2022	QFN81HJ-683	M.CAPA. I.M	FS-5000 ONLY	
	C2025	QTE1C06-226Z	E CAPACITOR		
	C2026	QFV81HJ-564	M.M.CAPA. I.M	FS-5000 ONLY	
	C2026	QFV41HJ-224ZM	M.M.CAPA. I.M	FS-6000 ONLY	
	C2051	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C2082	QFN31HJ-563Z	M.CAPACITOR	.056MF 5% 50V	
	C2083	QFN31HJ-563Z	M.CAPACITOR	.056MF 5% 50V	
	C2084	QFN41HJ-472	M CAPACITOR	4700PF 5% 50V	
	C2087	EFZ0101-392S	P.P.CAPACITOR	3900PF	
	C2088	QTE1V06-106Z	E.CAPACITOR		
⚠	C3001	QETM1EM-828	E CAPACITOR	FS-5000 ONLY	
	C3001	QEZ0441-828	E CAPACITOR	FS-6000 ONLY	
	C3002	QFV71HJ-124ZM	TF CAPACITOR	FS-6000 ONLY	
	C3002	QFN41HJ-104	M CAPACITOR	FS-5000 ONLY	
	C3003	QET41EM-107	E.CAPA.IM	100MF 20% 25V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C3004	EETC1AM-337ZE	E.CAPACITOR		
	C3005	QETC1EM-336Z	E CAPACITOR	33MF 20% 25V	
	C3006	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C3007	QET41EM-106	E CAPACITOR	10MF 20% 25V	
	C3021	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C3022	QTE1C06-226Z	E CAPACITOR		
	C3031	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C3032	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C3033	QFV71HJ-563ZM	M.M.CAP.IM	.056MF 5% 50V	
	C3034	QFV71HJ-563ZM	M.M.CAP.IM	.056MF 5% 50V	
	C3035	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C3036	QET41EM-106	E CAPACITOR	10MF 20% 25V	
	C3041	QET41EM-106	E CAPACITOR	10MF 20% 25V	
	C3051	QET41CM-107	E CAPACITOR	100MF 20% 16V	
	C3052	QEK51EM-226E	E.CAPA. I.M	22MF 20% 25V	
	C3053	QET41EM-106	E CAPACITOR	10MF 20% 25V	
	C3081	QET41CM-107	E CAPACITOR	100MF 20% 16V	
	C3083	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
	C3084	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
	C3085	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C3086	EETB1CM-106E	E.CAPA. I.M		
	C3087	QET41EM-106	E CAPACITOR	10MF 20% 25V	
	C3088	QER51EM-106	E.CAPA. I.M	10MF 20% 25V	
	C3089	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
	C3092	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C3112	QET41EM-106	E CAPACITOR	10MF 20% 25V	
	C3501	QCS11HJ-330	C CAPACITOR	33PF 5% 50V	
	C3502	QCS11HJ-201	C CAPACITOR	200PF 5% 50V	
	C3503	QCS11HJ-201	C CAPACITOR	200PF 5% 50V	
	C3504	QCS11HJ-680	C CAPACITOR	68PF 5% 50V	
	C3505	QFN31HJ-563Z	M.CAPACITOR	.056MF 5% 50V	
	C3506	QFN41HJ-104	M CAPACITOR	.10MF 5% 50V	
	C3507	QFN41HJ-472	M CAPACITOR	FS-5000 ONLY	
	C3507	QFN31HJ-272Z	M.M.CAPACITOR	FS-6000 ONLY	
	C3508	QFN81HJ-473	M CAPACITOR	FS-6000 ONLY	
	C3508	QFN81HJ-683	M.CAPA. I.M	FS-5000 ONLY	
	C3771	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C3772	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C3773	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
	C3774	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	
⚠	C3901	QETB1JM-107	E CAPACITOR	100MF 20% 63V	
⚠	C3902	QETB1JM-107	E CAPACITOR	100MF 20% 63V	
	C3903	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C3904	QEK51HM-226	E.CAPACITOR	22MF 20% 50V	
	C3905	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C3906	QEK61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C4001	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C4002	QETC0JM-227	E CAPACITOR	220MF 20% 6.3V	
	C4003	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
	C5001	QET41CM-107	E CAPACITOR	100MF 20% 16V	
	C5011	QET41EM-106	E CAPACITOR	10MF 20% 25V	
	C5501	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C9001	QEK41EM-476	E.CAPA. I.M	47MF 20% 25V	
	C9002	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C9003	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C9101	QET41EM-107	E.CAPA.IM	100MF 20% 25V	
	C9601	QEK41EM-106	E CAPACITOR	10MF 20% 25V	
	C9602	QEHR1CM-337Z	E CAPACITOR	330MF 20% 16V	
	C9603	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C9701	QFN41HJ-104	M CAPACITOR	.10MF 5% 50V	
	C9702	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C9703	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C9711	QEZ0229-479Z	EDL.CAPACITOR	47000MF	
⚠	C9901	QFV41HJ-224	CAPACITOR	.22MF 5% 50V	
⚠	C9902	QFV41HJ-224	CAPACITOR	.22MF 5% 50V	
⚠	C9903	QFV41HJ-224	CAPACITOR	.22MF 5% 50V	
⚠	C9904	QFV41HJ-224	CAPACITOR	.22MF 5% 50V	
	D3021	MTZ5.1JAT-77	ZENER DIODE		
	D3031	1SS133	SI DIODE		
	D3032	1SS133	SI DIODE		
	D3033	1SS133	SI DIODE		
	D3034	1SS133	SI DIODE		
	D3110	1SS133	SI DIODE		
	D3111	1SS133	SI DIODE		
	D3112	1SS133	SI DIODE		
	D3501	1SS133	SI DIODE	MAKER SITEI	
	D3502	1SS133	SI DIODE	MAKER SITEI	
	D3503	1SS133	SI DIODE	MAKER SITEI	
⚠	D3901	DSK10C-E	DIODE		
⚠	D3902	DSK10C-E	DIODE		
⚠	D3903	MTZJ27A-T2	Z DIODE		
⚠	D3904	MTZ3.0JB	Z.DIODE I.M		
	D9001	1SS133	SI DIODE		
	D9002	MTZ10JAT-77	ZENER DIODE		
	D9101	MTZ11JA	Z.DIODE I.M		
	D9102	1SS133	SI DIODE		
	D9103	DSK10C-E	DIODE		
	D9601	MTZ6.8JB	DIODE		
	D9701	1SS133	SI DIODE		
	D9702	MTZ8.2JB	DIODE		
	D9703	1SS133	SI DIODE		
	D9704	1SS133	SI DIODE		
	D9705	1SS133	SI DIODE		
	D9706	MTZ8.2JB	DIODE		
	D9712	MTZ5.1JC	ZENER DIODE		
	D9713	1SS133	SI DIODE		
⚠	D9901	6A10E2	SI DIODE		
⚠	D9902	6A10E2	SI DIODE		
⚠	D9903	6A10E2	SI DIODE		
⚠	D9904	6A10E2	SI DIODE		
⚠	IC301	LA4705NA	IC	POWER AMP	
	IC302	VC4580LD	IC	AHB AMP	
	IC305	BA15218N	IC		
	IC308	BH3852S	IC	E VOL	
	IC317	BU4094BC	IC		
⚠	IC371	UPC78L06J	IC		
⚠	IC372	KIA78S06P-T	IC		
	IC401	TA8409S	IC		
	IC501	TA8409S	IC		
	IC551	NJM2904L	IC		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	J3002	QNN0195-001	PIN JACK	SUB WOOFER	
	J3003	FMMJ4001-001	SPK TERMINAL	SPEAKER	
⚠	J9901	QNC0002-001	AC SOCKET 2P# 2	J/C VER	
	K5001	VQZ0107-002	INDUCTOR		
	K8101	VQZ0107-002	INDUCTOR		
	L4001	VQP0028-221Z	INDUCTOR		
	L4002	VQZ0107-002	INDUCTOR		
	L5011	VQP0028-221Z	INDUCTOR		
	PP391	VMZ0015-011	STYLE PIN	HP WIRE CLAMP	
	PP394	VMZ0015-011	STYLE PIN	TRANS WIRE CLAM	
	PP395	VMZ0015-011	STYLE PIN	HP WIRE CLAMP	
	Q1031	KTC3199(GL)-T	TRANSISTOR		
	Q1041	2SD2144S(VW)	TRANSISTOR		
	Q1051	2SK301(PQ)-T	TR		
	Q2031	KTC3199(GL)-T	TRANSISTOR		
	Q2041	2SD2144S(VW)	TRANSISTOR		
	Q2051	2SK301(PQ)-T	TR		
	Q3041	KRA101M-T	TR I/M		
	Q3081	2SD2144S(VW)	TRANSISTOR	BASS MUTE	
	Q3111	KTC3199(GL)-T	TRANSISTOR		
	Q3112	KRA101M-T	TR I/M		
	Q3501	KTC3199(GL)-T	TRANSISTOR		
	Q3502	KTA1267(YG)-T	TRANSISTOR		
	Q3511	DTC144WSTP	TR I.M		
⚠	Q3901	2SB1375	TRANSISTOR		
	Q4001	KTC3199(GL)-T	TRANSISTOR		
	Q4002	KTC3199(GL)-T	TRANSISTOR		
	Q4003	KRC114M-T	TR I.M *		
	Q5021	KTC3199(GL)-T	TRANSISTOR		
⚠	Q9001	2SB1565(E,F)	TRANSISTOR	REG.10V	
	Q9002	KTA1267(YG)-T	TRANSISTOR		
	Q9003	KTC3199(GL)-T	TRANSISTOR		
	Q9004	KRC114M-T	TR I.M *		
	Q9005	DTA144TSA-T	D.TRANSISTOR		
	Q9006	KTC3199(GL)-T	TRANSISTOR		
⚠	Q9101	2SC2001(L,K)	TRANSISTOR		
⚠	Q9601	2SC3422(OY)	TRANSISTOR		
	Q9602	KRA101M-T	TR I/M		
	Q9603	KRC104M-T	D.TR.I.M		
	Q9711	KTC3199(GL)-T	TRANSISTOR		
	Q9722	KRA101M-T	TR I/M		
	Q9723	KRC104M-T	D.TR.I.M		
⚠	R1001	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	
⚠	R1002	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	
	R1022	QRD161J-224	C RESISTOR	220K 5% 1/4W	
	R1023	QRD161J-222	C RESISTOR	FS-5000 ONLY	
	R1023	QRD161J-184	C RESISTOR	FS-6000 ONLY	
	R1024	QRD161J-242	C RESISTOR	FS-6000 ONLY	
	R1024	QRD161J-202	C RESISTOR	FS-5000 ONLY	
	R1027	QRD161J-123	C RESISTOR	FS-6000 ONLY	
	R1027	QRD161J-153	C RESISTOR	FS-5000 ONLY	
	R1028	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R1029	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
	R1031	QRD161J-223	C RESISTOR	22K 5% 1/4W	
	R1032	QRD161J-223	C RESISTOR	22K 5% 1/4W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R1033	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1034	QRD161J-123	C RESISTOR	12K 5% 1/4W	
	R1041	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R1051	QRD161J-473	C RESISTOR	47K 5% 1/4W	
	R1052	QRD161J-475	C RESISTOR	4.7M 5% 1/4W	
	R1082	QRD161J-512	C RESISTOR	5.1K 5% 1/4W	
	R1083	QRD161J-162	C RESISTOR	1.6K 5% 1/4W	
	R1085	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
	R1086	QRD161J-182	C RESISTOR	1.8K 5% 1/4W	
	R1087	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1089	QRD161J-224	C RESISTOR	220K 5% 1/4W	
⚠	R2001	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	
⚠	R2002	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	
	R2022	QRD161J-224	C RESISTOR	220K 5% 1/4W	
	R2023	QRD161J-222	C RESISTOR	FS-5000 ONLY	
	R2023	QRD161J-184	C RESISTOR	FS-6000 ONLY	
	R2024	QRD161J-242	C RESISTOR	FS-6000 ONLY	
	R2024	QRD161J-202	C RESISTOR	FS-5000 ONLY	
	R2027	QRD161J-123	C RESISTOR	FS-6000 ONLY	
	R2027	QRD161J-153	C RESISTOR	FS-5000 ONLY	
	R2028	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R2029	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
	R2031	QRD161J-223	C RESISTOR	22K 5% 1/4W	
	R2032	QRD161J-223	C RESISTOR	22K 5% 1/4W	
	R2033	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R2034	QRD161J-123	C RESISTOR	12K 5% 1/4W	
	R2041	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R2051	QRD161J-473	C RESISTOR	47K 5% 1/4W	
	R2052	QRD161J-475	C RESISTOR	4.7M 5% 1/4W	
	R2082	QRD161J-512	C RESISTOR	5.1K 5% 1/4W	
	R2083	QRD161J-162	C RESISTOR	1.6K 5% 1/4W	
	R2085	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
	R2086	QRD161J-182	C RESISTOR	1.8K 5% 1/4W	
	R2087	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R2089	QRD161J-224	C RESISTOR	220K 5% 1/4W	
	R3001	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R3021	QRD161J-151	C RESISTOR	150 5% 1/4W	
	R3022	QRD161J-182	C RESISTOR	1.8K 5% 1/4W	
	R3031	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R3032	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R3033	QRD161J-124	C RESISTOR	120K 5% 1/4W	
	R3034	QRD161J-154	C RESISTOR	FS-5000 ONLY	
	R3034	QRD161J-474	C RESISTOR	FS-6000 ONLY	
	R3035	QRD161J-223	C RESISTOR	22K 5% 1/4W	
	R3036	QRD161J-513	C RESISTOR	51K 5% 1/4W	
	R3051	QRD161J-151	C RESISTOR	150 5% 1/4W	
	R3052	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R3053	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R3054	QRD161J-473	C RESISTOR	47K 5% 1/4W	
	R3055	QRD161J-224	C RESISTOR	220K 5% 1/4W	
	R3056	QRD161J-331	C RESISTOR	330 5% 1/4W	
	R3080	QRD161J-151	C RESISTOR	150 5% 1/4W	
	R3081	QRD161J-151	C RESISTOR	150 5% 1/4W	
	R3082	QRD161J-124	C RESISTOR	120K 5% 1/4W	
	R3083	QRD161J-154	C RESISTOR	150K 5% 1/4W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R3085	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
	R3086	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R3087	QRD161J-104	C RESISTOR	100K 5% 1/4W	
	R3088	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
	R3111	QRD161J-104	C RESISTOR	100K 5% 1/4W	
	R3112	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
	R3501	QRD161J-473	C RESISTOR	47K 5% 1/4W	
	R3502	QRD161J-822	C RESISTOR	8.2K 5% 1/4W	
	R3503	QRD161J-822	C RESISTOR	8.2K 5% 1/4W	
	R3504	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R3505	QRD161J-475	C RESISTOR	4.7M 5% 1/4W	
	R3507	QRD161J-101	C RESISTOR	100 5% 1/4W	
	R3508	QRD161J-474	C RESISTOR	470K 5% 1/4W	
	R3509	QRD161J-124	C RESISTOR	120K 5% 1/4W	
	R3510	QRD161J-101	C RESISTOR	100 5% 1/4W	
	R3511	QRD167J-275	C.RES. I.M	2.7M 5% 1/4W	
	R3771	QRD161J-153	C RESISTOR	15K 5% 1/4W	
⚠	R3901	QRZ0077-4R7X	F RESISTOR	4.7 1/0W	
	R3902	QRD161J-392	C RESISTOR	3.9K 5% 1/4W	
	R3903	QRD161J-223	C RESISTOR	22K 5% 1/4W	
	R3904	QRD161J-100	C RESISTOR	10 5% 1/4W	
⚠	R3905	QRJ146J-1R0X	UNF C RESISTOR	1.0 5% 1/4W	
⚠	R3906	QRJ146J-1R0X	UNF C RESISTOR	1.0 5% 1/4W	
	R3907	QRD161J-331	C RESISTOR	330 5% 1/4W	
⚠	R3915	QRJ146J-1R0X	UNF C RESISTOR	1.0 5% 1/4W	
⚠	R3916	QRJ146J-1R0X	UNF C RESISTOR	1.0 5% 1/4W	
	R4001	QRD161J-153	C RESISTOR	15K 5% 1/4W	
	R4002	QRD161J-123	C RESISTOR	12K 5% 1/4W	
	R4003	QRD14CJ-3R9S	UNF.C.RES. I.M	3.9 5% 1/4W	
	R4004	QRD161J-133Y	C RESISTOR	13K 5% 1/4W	
	R4005	QRD161J-391	C RESISTOR	390 5% 1/4W	
	R4006	QRD161J-151	C RESISTOR	150 5% 1/4W	
	R5001	QRJ146J-151X	C RESISTOR	150 5% 1/4W	
	R5011	QRD161J-153	C RESISTOR	15K 5% 1/4W	
	R5012	QRD161J-223	C RESISTOR	22K 5% 1/4W	
	R5021	QRD161J-471	C RESISTOR	470 5% 1/4W	
	R5022	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R5023	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R5501	QRD161J-151	C RESISTOR	150 5% 1/4W	
	R5502	QRD161J-133Y	C RESISTOR	13K 5% 1/4W	
	R5503	QRD161J-333	C RESISTOR	33K 5% 1/4W	
	R5504	QRD161J-822	C RESISTOR	8.2K 5% 1/4W	
	R8101	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R8102	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R8103	QRD161J-122	C RESISTOR	1.2K 5% 1/4W	
	R8104	QRD161J-152	C RESISTOR	1.5K 5% 1/4W	
	R8105	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
	R8106	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
	R8107	QRD161J-392	C RESISTOR	3.9K 5% 1/4W	
	R8108	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
	R8109	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R8110	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R8112	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R8113	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R8114	QRD161J-122	C RESISTOR	1.2K 5% 1/4W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R8115	QRD161J-152	C RESISTOR	1.5K 5% 1/4W	
	R8116	QRD161J-153	C RESISTOR	15K 5% 1/4W	
	R8117	QRD161J-823	C RESISTOR	82K 5% 1/4W	
⚠	R9001	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	
⚠	R9002	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	
⚠	R9003	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	
	R9004	QRD161J-471	C RESISTOR	470 5% 1/4W	
	R9005	QRD161J-152	C RESISTOR	1.5K 5% 1/4W	
	R9006	QRD167J-682	C RESISTOR	6.8K 5% 1/4W	
	R9007	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R9008	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
	R9009	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R9010	QRD161J-471	C RESISTOR	470 5% 1/4W	
	R9011	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
	R9012	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
	R9013	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
	R9014	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
	R9015	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R9016	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R9017	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
	R9101	QRD161J-561	C RESISTOR	560 5% 1/4W	
	R9601	QRD161J-122	C RESISTOR	1.2K 5% 1/4W	
	R9602	QRD161J-101	C RESISTOR	100 5% 1/4W	
	R9603	QRD161J-470	C RESISTOR	47 5% 1/4W	
	R9604	QRD161J-473	C RESISTOR	47K 5% 1/4W	
⚠	R9701	QRZ0077-4R7X	F RESISTOR	4.7 1/0W	
	R9711	QRD161J-333	C RESISTOR	33K 5% 1/4W	
	R9712	QRD161J-473	C RESISTOR	47K 5% 1/4W	
	R9713	QRD161J-104	C RESISTOR	100K 5% 1/4W	
	R9714	QRD161J-331	C RESISTOR	330 5% 1/4W	
	R9723	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
⚠	R9901	QRZ9037-335	COMP RESISTOR	3.3M 1/0W	
	S8101	QSW0698-001Z	TACT SWITCH	OPEN/CLOSE	
	S8102	QSW0698-001Z	TACT SWITCH	CD	
	S8103	QSW0698-001Z	TACT SWITCH	FM/AM	
	S8104	QSW0698-001Z	TACT SWITCH	MD/TAPE	
	S8105	QSW0698-001Z	TACT SWITCH	AUX	
	S8106	QSW0698-001Z	TACT SWITCH	P-TUNING	
	S8107	QSW0698-001Z	TACT SWITCH	DOWN	
	S8108	QSW0698-001Z	TACT SWITCH	STOP	
	S8109	QSW0698-001Z	TACT SWITCH	UP	
	S8110	QSW0698-001Z	TACT SWITCH	CLOCK	
	S8111	QSW0698-001Z	TACT SWITCH	SLEEP	
	S8112	QSW0698-001Z	TACT SWITCH	POWER	
	S8113	QSW0698-001Z	TACT SWITCH	AHB	
	S8115	QSW0698-001Z	TACT SWITCH	TIMER/SNOOZE	
	VR501	QVQ0120-B54	M V RESISTOR		

■ Tuner Board

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 1	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 2	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 3	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 4	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 5	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 6	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 9	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 12	NDU21HJ-100X	C CAPACITOR		
	C 13	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 14	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 18	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 21	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 30	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 32	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 33	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
	C 34	NCS21HJ-150AY	C CAPACITOR	15PF 5% 50V	
	C 35	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 36	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 37	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 39	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 40	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 41	QEK41HM-104	E CAPACITOR	.10MF 20% 50V	
	C 42	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
	C 44	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
	C 45	QEK61HM-335ZN	E CAPACITOR	3.3MF 20% 50V	
	C 46	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 47	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 49	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 50	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 51	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 52	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 60	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
	C 61	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V	
	C 62	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V	
	C 63	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 65	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 66	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C 67	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C 68	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 69	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C 70	NCB21HK-392AY	C CAPACITOR	3900PF 10% 50V	
	C 71	QEK61HM-335ZN	E CAPACITOR	3.3MF 20% 50V	
	C 72	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 91	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 93	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	CA701	QCNC74K-221	C.NETWORK	220PF 10%	
	CA702	QCNC74K-221	C.NETWORK	220PF 10%	
	CA703	QCNC74K-221	C.NETWORK	220PF 10%	
	CF 1	VCF2L3B-108Z	C FILTER	FM IF	
	CF 2	VCF2L3B-108Z	C FILTER	FM IF	
	CF 3	VCF1Z2Z-115Z	C FILTER		
	CF 4	QAX0409-001	CERA LOCK		
	CN601	VMC0163-R07	CONNECTOR	TO CD(SIG)	
	CN602	VMC0040-003	CONNECTOR IM	TO CD(OPT DIG)	
	CN611	QGB1216J1-10S	CONNECTOR	TO MAIN	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CN641	VMC0040-005	CONECTOR	TO DOOR MOT	
	CN671	QGB1216J1-18S	B TO B CONNE	TO MICON	
	CN701	VMC0163-R11	CONNECTOR	TO CD	
	CN711	QGB1216K1-26S	B TO B CONNE	TO MAIN	
	CN761	QGB1216K1-18S	B TO B CONNE	TO FUNC.TUNER	
	CN781	QGB1216K1-08S	CONNECTOR	TO SW	
	CN782	QGF1201C3-05	FFC CONNE	TO FRONT	
	CN872	QGF1201F3-05	CONNECTOR	TO MICOM	
	C1036	NCS21HJ-331AY	C CAPACITOR	330PF 5% 50V	
	C2036	NCS21HJ-331AY	C CAPACITOR	330PF 5% 50V	
	C6003	NCS21HJ-102AY	C CAPACITOR	1000PF 5% 50V	
	C6007	NCS21HJ-102AY	C CAPACITOR	1000PF 5% 50V	
	C6101	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C6121	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C6141	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C6161	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	
	C6162	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V	
	C6171	QTE1C03-106Z	E CAPACITOR		
	C6172	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C6173	NCS21HJ-100AY	C CAPACITOR	10PF 5% 50V	
	C6174	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C6175	NCS21HJ-300AY	C.CAPA. C.M	30PF 5% 50V	
	C6201	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C6221	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C6241	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C6261	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	
	C6262	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V	
	C6271	QTE1C03-106Z	E CAPACITOR		
	C6272	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C6273	NCS21HJ-100AY	C CAPACITOR	10PF 5% 50V	
	C6274	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C6275	NCS21HJ-300AY	C.CAPA. C.M	30PF 5% 50V	
	C6301	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C6302	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C6321	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C6322	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C6341	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C6342	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C6361	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C6362	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C6371	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C6372	QTE1V06-106Z	E.CAPACITOR		
	C6373	NCB21EK-823AY	C CAPACITOR	.082MF 10% 25V	
	C6381	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C6382	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C6383	NCS21HJ-102AY	C CAPACITOR	1000PF 5% 50V	
	C6384	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C6901	QEK61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C6902	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
	C7001	NCS21HJ-102AY	C CAPACITOR	1000PF 5% 50V	
	C7002	NCS21HJ-360AY	C CAPACITOR	36PF 5% 50V	
	C7003	NCS21HJ-200AY	C CAPACITOR	20PF 5% 50V	
	C7004	NCS21HJ-220AY	C CAPACITOR	22PF 5% 50V	
	C7005	NCS21HJ-390AY	C CAPACITOR	39PF 5% 50V	
	C7006	NCS21HJ-102AY	C CAPACITOR	1000PF 5% 50V	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C7007	NCS21HJ-220AY	C CAPACITOR	22PF 5% 50V	
	C7008	NCS21HJ-200AY	C CAPACITOR	20PF 5% 50V	
	C7009	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C7010	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C7011	QER41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C7012	QER41HM-475MM	E CAPACITOR	4.7MF 20% 50V	
	C7013	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C7014	QFV71HJ-124ZM	TF CAPACITOR	.12MF 5% 50V	
	C7015	QFV81HJ-564	M.M.CAPA. I.M	.56MF 5% 50V	
	C7016	QFV81HJ-564	M.M.CAPA. I.M	.56MF 5% 50V	
	C7017	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C7019	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C7622	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C7623	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C7636	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C7703	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V	
	C7704	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C7705	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C7706	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C7717	NCS21HJ-331AY	C CAPACITOR	330PF 5% 50V	
	C7721	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C7722	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C7723	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C7726	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C7736	QER41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C7737	QER61HM-335ZM	E CAPACITOR	3.3MF 20% 50V	
	C7741	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C7742	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C7749	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C7809	NCS21HJ-102AY	C CAPACITOR	1000PF 5% 50V	
	C7815	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
	C7816	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
	C7817	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
	C7818	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
	C7819	NCS21HJ-102AY	C CAPACITOR	1000PF 5% 50V	
	C7820	NCS21HJ-102AY	C CAPACITOR	1000PF 5% 50V	
	C7821	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C7822	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C8501	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C8502	NCS21HJ-102AY	C CAPACITOR	1000PF 5% 50V	
	D 1	1SS133	SI DIODE		
	D 2	1SS133	SI DIODE		
	D 3	1SS133	SI DIODE		
	D 4	1SS133	SI DIODE		
	DI701	QLF0048-001	FL TUBE		
	D1005	1SS133	SI DIODE		
	D2005	1SS133	SI DIODE		
	D6303	1SS133	SI DIODE		
	D6361	1SS133	SI DIODE		
	D6362	1SS133	SI DIODE		
	D6901	MTZ3.9JB	Z DIODE	TU SW	
	D6902	1SS133	SI DIODE	TU SW	
	D6903	1SS133	SI DIODE	TU SW	
	D7001	1SS133	SI DIODE	US5V	
	D7002	1SS133	SI DIODE		

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D7003	1SS133	SI DIODE	RESET	
	D7004	SELU1E10CXM	LED	VOL-ILL(BLUE)	
	D7005	SELU1E10CXM	LED	VOL-ILL(BLUE)	
	D7733	MTZ6.2JB	ZENER DIODE		
	D7795	1SS133	SI DIODE		
	D7796	1SS133	SI DIODE		
	D8501	SLR-342VC-T	LED I.M		
	IC 1	TA2057N	IC		
	IC 2	LC72136N	IC		
	IC601	BA15218F-WE	IC	FUNCTION	
	IC701	UPD780204GF-042	IC	SYSTEM MICON	
	IC851	GP1U261X	IR DETECT UNIT	REM SENSOR	
	J 1	EMB41YV-302K	ANT TERMINAL	AM/FM ANT COAX	
	J3004	QNS0097-001	3.5 JACK	KIKAKU HENNKOU	
	J6001	QNN0196-001	PIN JACK	AUX/LINE OUT	
	J6002	GP1F32T	OPTICAL JACK	OPT DIG OUT	
	K1031	VQZ0048-009	INDUCTOR	FTZ	
	K2031	VQZ0048-009	INDUCTOR	FTZ	
	K6341	VQZ0048-007	INDUCTOR		
	K6371	VQZ0107-002	INDUCTOR		
	K7001	VQZ0107-002	INDUCTOR		
	K7002	VQZ0107-002	INDUCTOR		
	L 1	VQZ0098-202	COIL BLOCK	MW/LW RF/OSC	
	L 4	VQP0018-221	INDUCTOR		
	L1032	VQP0018-470	INDUCTOR	FTZ	
	L2032	VQP0018-470	INDUCTOR	FTZ	
	L3001	VQP0018-470	INDUCTOR	FTZ	
	L6161	EQF0101-010	FILTER		
	L6261	EQF0101-010	FILTER		
	L6381	VQP0018-100	INDUCTOR I.M		
	L7001	VQP0033-100Z	INDUCTOR	VDD	
	L7002	VQP0033-100Z	INDUCTOR	SW5V	
	L7003	VQP0026-470Z	INDUCTOR	FL DRIVER	
	L7004	VQP0033-100Z	INDUCTOR	FL	
	L7005	QQL48AK-470	INDUCTOR	FL	
	L7006	QQL48AK-470	INDUCTOR	FL	
	L7722	VQP0018-4R7	INDUCTOR	SCK	
	L7723	VQP0018-4R7	INDUCTOR	SDATA	
	L7735	VQP0018-4R7	INDUCTOR	AVREF	
	PP603	VMZ0015-011	STYLE PIN		
	Q 1	2SC2668(O)	TR TAPE		
	Q 6	DTA114YKA-X	TRANSISTOR		
	Q 7	2SA1037K(R)-X	TRANSISTOR		
	Q 8	2SA1037K(R)-X	TRANSISTOR		
	Q6101	2SD1048X7T-HL	TRANSISTOR		
	Q6102	2SD1048X7T-HL	TRANSISTOR		
	Q6121	2SD1048X7T-HL	TRANSISTOR		
	Q6122	2SD1048X7T-HL	TRANSISTOR		
	Q6141	2SD1048X7T-HL	TRANSISTOR		
	Q6161	2SC2412K/R/-X	TRANSISTOR		
	Q6201	2SD1048X7T-HL	TRANSISTOR		
	Q6202	2SD1048X7T-HL	TRANSISTOR		
	Q6221	2SD1048X7T-HL	TRANSISTOR		
	Q6222	2SD1048X7T-HL	TRANSISTOR		
	Q6241	2SD1048X7T-HL	TRANSISTOR		

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	Q6261	2SC2412K/R/-X	TRANSISTOR		
	Q6301	2SC2412K/R/-X	TRANSISTOR		
	Q6302	DTA114WKA-X	DIGI TRANSISTOR		
	Q6321	2SC2412K/R/-X	TRANSISTOR		
	Q6322	DTA114WKA-X	DIGI TRANSISTOR		
	Q6341	DTA123JSA-T	D.TR.I.M		
	Q6361	DTA114WKA-X	DIGI TRANSISTOR		
	Q6901	KTA1267(YG)-T	TRANSISTOR	TU SW	
	Q6902	2SC2412K/R/-X	TRANSISTOR	TU SW	
	Q7001	2SC2714/O/-X	TRANSISTOR	CLOCK SHIFT	
	Q7002	2SC2714/O/-X	TRANSISTOR	CLOCK SHIFT	
	Q7003	DTA114TKAT146	TRANSISTOR	SW5V	
	Q7004	2SC2412K/R/-X	TRANSISTOR	RESET	
	Q7722	DTC144TKA-X	TRANSISTOR	SDATA CONT	
	Q7723	DTC144TKA-X	TRANSISTOR	SCK CONT	
	Q7795	2SC2412K/R/-X	TRANSISTOR	FL DRIVER	
	Q7796	2SC2412K/R/-X	TRANSISTOR	FL DRIVER	
	Q8501	2SC2412K/R/-X	TRANSISTOR		
	Q8502	DTC144EKA-X	TRANSISTOR		
	R 1	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 2	NRSA02J-820NY	MG RESISTOR	82 5% 1/10W	
	R 3	NRSA02J-0R0NY	BUS WIRE I/M	5% 1/10W	
	R 10	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 12	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 13	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 20	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 21	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R 22	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 23	NRSA02J-270NY	MG RESISTOR	27 5% 1/10W	
	R 24	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
	R 25	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 27	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 29	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 30	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 31	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 32	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 34	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 35	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 36	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 37	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 38	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R 39	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R 42	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 43	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 44	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 45	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 46	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 48	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 52	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 54	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 55	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
	R 56	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 57	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 66	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 68	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 69	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 98	QRZ9037-335	COMP RESISTOR	3.3M 1/0W	
	R 99	QRZ9037-335	COMP RESISTOR	3.3M 1/0W	
	RA701	QRB169J-104	R.NETWORK	100K 5% 1/6W	
	RA702	QRB169J-104	R.NETWORK	100K 5% 1/6W	
	RA703	QRB169J-104	R.NETWORK	100K 5% 1/6W	
	R1003	QRD161J-151	C RESISTOR	150 5% 1/4W	
	R1004	QRD161J-471	C RESISTOR	470 5% 1/4W	
	R1005	QRD161J-823	C RESISTOR	82K 5% 1/4W	
	R2003	QRD161J-151	C RESISTOR	150 5% 1/4W	
	R2004	QRD161J-471	C RESISTOR	470 5% 1/4W	
	R2005	QRD161J-823	C RESISTOR	82K 5% 1/4W	
	R6101	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R6102	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R6103	NRSA02J-363NYM	RES. C.M	36K 5% 1/10W	
	R6104	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
	R6105	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6106	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
	R6107	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
	R6108	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6121	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R6122	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R6123	NRSA02J-363NYM	RES. C.M	36K 5% 1/10W	
	R6124	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
	R6125	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6126	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
	R6127	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
	R6128	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6141	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R6142	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6143	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R6144	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R6161	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R6162	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R6163	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
	R6164	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R6165	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
	R6171	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R6172	NRSA02J-753NY	MG RESISTOR	75K 5% 1/10W	
	R6173	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
	R6174	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R6201	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R6202	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R6203	NRSA02J-363NYM	RES. C.M	36K 5% 1/10W	
	R6204	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
	R6205	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6206	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
	R6207	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
	R6208	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6221	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R6222	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R6223	NRSA02J-363NYM	RES. C.M	36K 5% 1/10W	
	R6224	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
	R6225	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6226	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R6227	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
	R6228	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6241	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R6242	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6243	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R6244	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R6261	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R6262	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R6263	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
	R6264	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R6265	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
	R6271	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R6272	NRSA02J-753NY	MG RESISTOR	75K 5% 1/10W	
	R6273	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
	R6274	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R6301	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R6302	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R6303	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R6321	NRSA02J-1Q3NY	MG RESISTOR	10K 5% 1/10W	
	R6322	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R6323	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R6361	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R6362	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R6371	QRD167J-121	C RESISTOR	120 5% 1/4W	
	R6372	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R6373	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R6381	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R6382	NRSA02J-913NY	MG RESISTOR	91K 5% 1/10W	
	R6901	NRSA02J-390NY	MG RESISTOR	39 5% 1/10W	
	R6902	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R6903	NRSA02J-563NY	MG RESISTOR	56K 5% 1/10W	
	R6904	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R7001	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R7002	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R7003	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7004	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7005	NRSA02J-221NY	MG RESISTOR	220 5% 1/10W	
	R7008	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7009	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7495	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R7496	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R7527	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7530	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7536	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
	R7549	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7595	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
	R7596	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
	R7603	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R7604	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7605	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R7606	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7617	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7618	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7627	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7628	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R7629	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R7630	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R7631	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7632	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7636	NRSA02J-114NYM	MG RESISTOR	110K 5% 1/10W	
	R7637	NRSA02J-114NYM	MG RESISTOR	110K 5% 1/10W	
	R7638	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7641	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R7642	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7643	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R7644	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7645	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7647	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R7649	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
	R7650	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
	R7695	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R7696	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R7702	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7703	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7704	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7705	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7706	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7707	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7708	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R7709	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R7714	NRSA02J-334NY	MG RESISTOR	330K 5% 1/10W	
	R7717	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7719	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7720	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7721	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7722	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7726	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7727	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7728	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7729	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7730	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7731	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7732	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7733	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7736	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7737	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7739	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7741	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R7742	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R7743	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7744	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
	R7745	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
	R7747	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7748	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7749	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7750	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7751	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7795	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7796	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R8501	NRSA02J-221NY	MG RESISTOR	220 5% 1/10W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R8502	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
	SPACE	LV40359-003A	LED SPACER	FOR D7005	
	SPACE	LV40359-003A	LED SPACER	FOR D7004	
	S6381	QSW0620-001	SWITCH		
	S6382	QSW0620-001	SWITCH		
	T 1	VQT7A21-113	IFT		
	TU 1	QAU0097-001	FRONT END	FM TU	
	W6001	VMZ0015-002	POST PIN		
	X 1	QAX0402-001	CRYSTAL		
	X7001	QAX0410-001Z	CERA LOCK	MAIN CLOCK	
	X7002	QAX0401-001	CRYSTAL	CLOCK	

■ CD Servo Control Board

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 604	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
	C 605	QET41EM-106	E CAPACITOR	10MF 20% 25V	
	C 606	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
	C 607	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
	C 608	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 609	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
	C 610	QFLC1HJ-273ZM	M CAPACITOR	.027MF 5% 50V	
	C 611	QCXB1CM-222Y	C CAPACITOR	2200PF 20% 16V	
	C 612	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
	C 613	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 614	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V	
	C 615	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
	C 616	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
	C 617	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
	C 618	QCXB1CM-222Y	C CAPACITOR	2200PF 20% 16V	
	C 619	QCBB1HK-271Y	C CAPACITOR	270PF 10% 50V	
	C 620	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C 621	QCBB1HK-821Y	C CAPACITOR	820PF 10% 50V	
	C 622	QET41AM-476	E CAPACITOR	47MF 20% 10V	
	C 623	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V	
	C 628	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	
	C 629	QET41AM-107	E CAPACITOR	100MF 20% 10V	
	C 631	QET41AM-477	E CAPACITOR	470MF 20% 10V	
	C 632	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
	C 651	QCS11HJ-120	C CAPACITOR	12PF 5% 50V	
	C 652	QCS11HJ-150	C CAPACITOR	15PF 5% 50V	
	C 653	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
	C 655	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	
	C 661	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 662	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
	C 663	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
	C 664	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
	C 665	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
	C 671	QCXB1CM-152Y	C CAPACITOR	1500PF 20% 16V	
	C 672	QCXB1CM-152Y	C CAPACITOR	1500PF 20% 16V	
	C 673	QTE1C05-227	E CAPACITOR		
	C 674	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
	C 675	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
	C 676	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
	C 691	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	C 692	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	C 693	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	C 698	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
	CN601	QGF1008F1-15	CONNECTOR	TO RF	
	CN603	QGF1205F1-07	CONNECTOR	TO AUDIO	
	CN604	VMC0163-R11	CONNECTOR	TO MICON	
	CN605	VMC0041-003	W TO B CONNE	TO DIGITAL OUT	
	D 661	1SS133	SI DIODE		
	IC601	AN8806SB	IC	RF AMP	
⚠	IC602	BA6897FP	IC	DRIVER	
	IC603	MN35510	IC	1CHIP PROCESSER	
	Q 601	2SA952(L,K)	TRANSISTOR		
	Q 631	2SA952(L,K)	TRANSISTOR		
	R 601	QRD161J-123	C RESISTOR	12K 5% 1/4W	
	R 603	QRD161J-125	C.RES. I.M	1.2M 5% 1/4W	

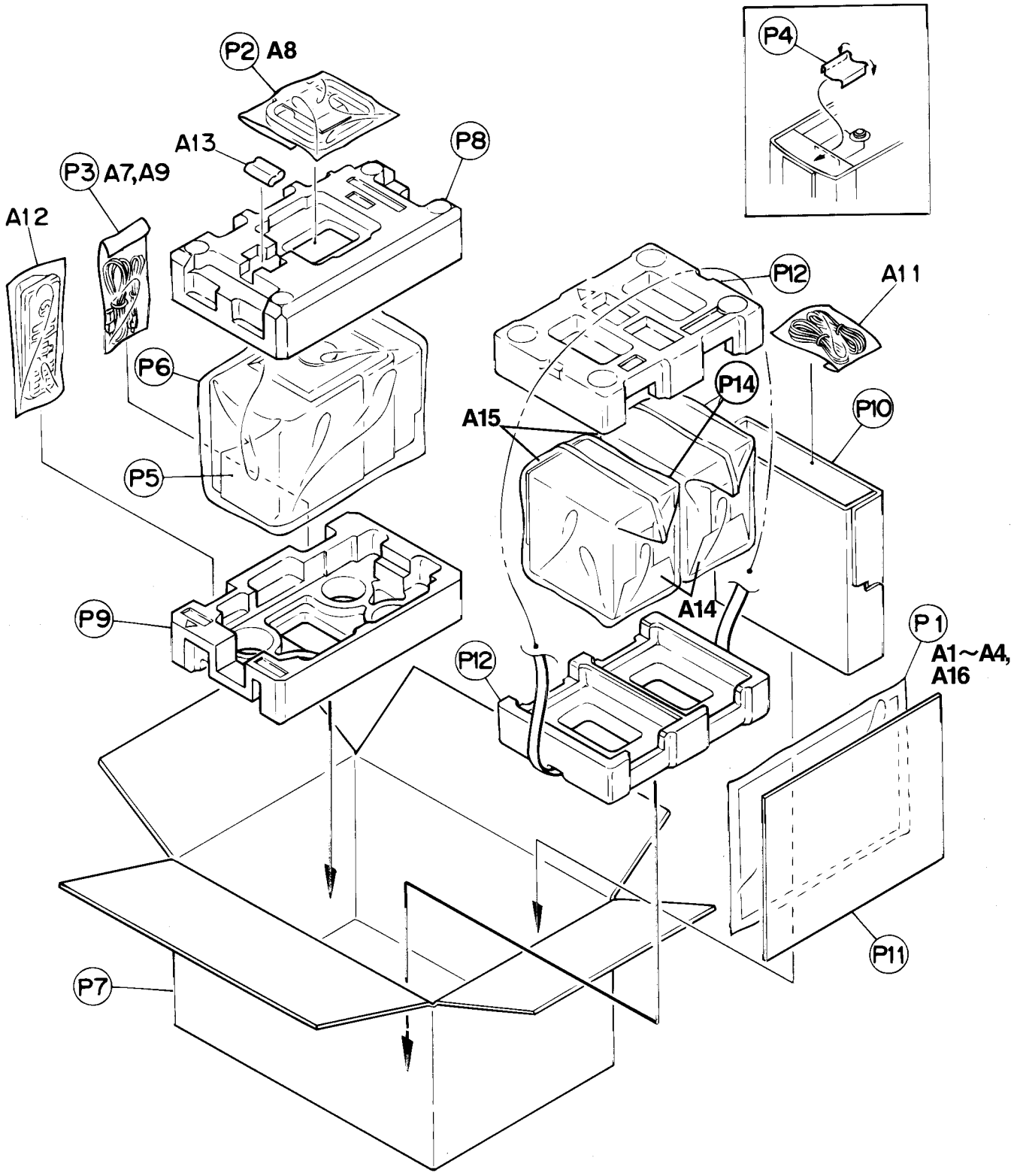
BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 605	QRD167J-134	C.RES. I.M	130K 5% 1/4W	
	R 606	QRD161J-913	C.RES. I.M	91K 5% 1/4W	
	R 607	QRD161J-273	C RESISTOR	27K 5% 1/4W	
	R 609	QRD161J-114	C.RES. I.M	110K 5% 1/4W	
	R 610	QRD161J-154	C RESISTOR	150K 5% 1/4W	
	R 612	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 613	QRD167J-121	C RESISTOR	120 5% 1/4W	
	R 614	QRD161J-100	C RESISTOR	10 5% 1/4W	
	R 615	QRD161J-120	C RESISTOR	12 5% 1/4W	
	R 616	QRD161J-910Y	C RESISTOR	91 5% 1/4W	
	R 621	QRD161J-330	C RESISTOR	33 5% 1/4W	
	R 622	QRD161J-330	C RESISTOR	33 5% 1/4W	
	R 623	QRD161J-330	C RESISTOR	33 5% 1/4W	
	R 631	QRD161J-331	C RESISTOR	330 5% 1/4W	
	R 632	QRD161J-101	C RESISTOR	100 5% 1/4W	
	R 633	QRD161J-273	C RESISTOR	27K 5% 1/4W	
	R 641	QRD161J-563	C RESISTOR	56K 5% 1/4W	
	R 642	QRD161J-123	C RESISTOR	12K 5% 1/4W	
	R 643	QRD161J-822	C RESISTOR	8.2K 5% 1/4W	
	R 644	QRD161J-223	C RESISTOR	22K 5% 1/4W	
	R 645	QRD161J-223	C RESISTOR	22K 5% 1/4W	
	R 646	QRD161J-182	C RESISTOR	1.8K 5% 1/4W	
	R 647	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
	R 651	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R 652	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R 653	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R 654	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R 655	QRD161J-471	C RESISTOR	470 5% 1/4W	
	R 659	QRD161J-471	C RESISTOR	470 5% 1/4W	
	R 661	QRD161J-104	C RESISTOR	100K 5% 1/4W	
	R 662	QRD161J-155	C RESISTOR	1.5M 5% 1/4W	
	R 663	QRD161J-124	C RESISTOR	120K 5% 1/4W	
	R 664	QRD161J-471	C RESISTOR	470 5% 1/4W	
	R 666	QRD161J-220	C RESISTOR	22 5% 1/4W	
	R 671	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	R 672	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
	X 651	VCX5016-934V	CRYSTAL	16.9344MHZ	

-MEMO-

Packing Materials and Accessories List

Block No. M 3 M M
Block No. M 4 M M



■Packing List

BLOCK NO. M3MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	QPA02503503P	POLY BAG	INSTRUCTIONS	1		
	P 2	QPA01702503P	POLY BAG	AM LOOP ANT	1		
	P 3	QPA01202505	POLY BAG	FOR POWER CORD	1		
	P 4	VPK4236-010	SPACER		1		
	P 5	VPK3001-012	SHEET		1		
	P 6	QPC04004515P	POLY BAG		1		
	P 7	LV30142-003A	CARTON	FS-5000 ONLY	1		
		LV30142-004A	CARTON	FS-6000 ONLY	1		
	P 8	LV10038-001A	CUSHION		1		
	P 9	LV10038-002A	CUSHION		1		
	P 10	LV30440-001A	SPACER		1		
	P 11	LV40548-001A	SHEET		1		
	P 12	LV20125-001A	CUSHION	FOR SPEAKER	2		
	P 14	85-000-289-01	POLY BAG	FOR SPEAKER	2		

■Accessories List

BLOCK NO. M4MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	LVT0086-001A	INSTRUCTIONS		1		
	A 2	BT-51009-3	WARRANTY CARD		1		
		BT-52001-4	WARRANTY CARD		1		
	A 3	BT-20137	SERVICE NETWORK		1		
		BT-20071B	SVC CENTER LIST		1		
	A 4	BT-20044G	SAFETY INST.		1		
	A 7	EWP503-001	ANT.WIRE	FM ANT.	1		
	A 8	QAL0014-001	AM LOOP ANT	AM ANT.	1		
⚠	A 9	QMP1F00-183	POWER CORD		1		
	A 11	VMP0133-101	SP.CORD SET UL	SPEAKER CORD OF	1		
	A 12	RM-RXFS5000	REMOCON UNIT		1		
	A 13	R6SPTT/2STS	BATTERY	FOR REMOCON	1		
	A 14	SPUX5000-SPBOX	SPEAKER BOX	FS-5000 ONLY	2		
		SPFS6000-SPBOX	SPEAKER BOX	FS-6000 ONLY	2		
	A 15	LV20179-001A	SPEAKER NET	FOR SPEAKER	2		
	A 16	LV40554-001A	POLISHING CLOTH	FS-6000 ONLY	1		

FS-5000/FS-6000

JVC

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